

Petroleum Supply Monthly

January 2023



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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	371,245	--	--	187,292	21,001	-33,239	491,513	121,264	0	804,768
Hydrocarbon Gas Liquids	181,991	-741	10,153	5,750	--	-6,842	23,823	72,044	108,127	236,063
Natural Gas Liquids	181,991	-741	3,316	5,228	--	-6,679	23,823	72,044	100,605	234,053
Ethane	75,162	--	174	--	--	4,085	--	13,681	57,570	56,797
Propane	57,165	--	8,628	3,863	--	982	--	40,728	27,946	87,594
Normal Butane	15,767	--	-4,893	1,195	--	-11,128	10,417	12,297	483	51,350
Isobutane	14,107	--	-593	163	--	25	7,310	111	6,231	11,996
Natural Gasoline	19,790	-741	--	7	--	-643	6,096	5,227	8,376	26,316
Refinery Olefins	--	--	6,837	522	--	-163	--	--	7,522	2,010
Ethylene	--	--	19	--	--	0	--	--	19	0
Propylene	--	--	7,030	323	--	141	--	--	7,212	1,168
Normal Butylene	--	--	-221	199	--	-263	--	--	241	837
Isobutylene	--	--	9	--	--	-41	--	--	50	5
Other Liquids	--	38,827	--	31,991	5,702	12,953	42,977	10,955	9,635	319,022
Hydrogen/Biofuels/Other Hydrocarbons	--	38,828	--	2,095	5,426	3,172	35,361	2,170	5,646	30,158
Hydrogen	--	--	--	--	6,811	--	6,811	--	0	--
Biofuels (including Fuel Ethanol)	--	38,828	--	2,095	-1,399	3,162	28,546	2,170	5,646	30,137
Fuel Ethanol ⁵	--	31,545	--	500	-1,399	1,923	26,774	1,949	0	23,556
Biofuels (excluding Fuel Ethanol)	--	7,283	--	1,595	--	1,239	1,772	221	5,646	6,582
Biodiesel	--	3,384	--	903	--	321	1,240	221	2,505	3,251
Renewable Diesel Fuel	--	3,398	--	692	--	852	452	NA	2,786	3,087
Other Biofuels ⁶	--	502	--	--	--	66	80	NA	355	244
Other Hydrocarbons	--	--	--	--	14	10	4	--	0	21
Unfinished Oils	--	--	--	15,813	--	-992	6,012	6,784	4,009	84,185
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-1	--	14,083	276	10,762	1,595	2,001	0	204,639
Reformulated	--	0	--	4,341	9,570	3,896	10,012	3	0	43,559
Conventional	--	-1	--	9,742	-9,294	6,866	-8,417	1,998	0	161,080
Aviation Gasoline Blend. Comp.	--	--	--	--	--	11	9	--	-20	39
Finished Petroleum Products	--	202	579,090	24,596	1,123	12,343	--	92,638	500,030	254,633
Finished Motor Gasoline	--	202	290,290	2,974	1,123	-416	--	29,529	265,476	16,685
Reformulated	--	--	90,341	--	-8,400	-5	--	--	81,946	23
Conventional	--	202	199,949	2,974	9,523	-411	--	29,529	183,530	16,662
Finished Aviation Gasoline	--	--	330	21	--	-41	--	--	392	1,117
Kerosene-Type Jet Fuel	--	4	49,764	4,311	--	1,225	--	4,656	48,198	37,783
Kerosene	--	--	930	--	--	699	--	223	8	1,831
Distillate Fuel Oil ⁵	--	-4	160,154	6,829	--	9,999	--	35,164	121,815	120,527
15 ppm sulfur and under	--	-4	153,440	6,812	--	9,563	--	29,453	121,232	109,409
Greater than 15 ppm to 500 ppm sulfur	--	0	3,113	16	--	78	--	2,645	406	2,816
Greater than 500 ppm sulfur	--	--	3,601	1	--	358	--	3,066	178	8,302
Residual Fuel Oil	--	--	6,567	7,497	--	-701	--	4,263	10,502	29,081
Less than 0.31 percent sulfur	--	--	1,314	--	--	-97	--	NA	NA	2,019
0.31 to 1.00 percent sulfur	--	--	3,564	2,190	--	-39	--	NA	NA	6,474
Greater than 1.00 percent sulfur	--	--	1,689	5,307	--	-565	--	NA	NA	20,588
Petrochemical Feedstocks	--	--	6,775	317	--	138	--	--	6,954	2,567
Naphtha for Petro. Feed. Use	--	--	4,124	228	--	26	--	--	4,326	1,825
Other Oils for Petro. Feed. Use	--	--	2,651	89	--	112	--	--	2,628	742
Special Naphthas	--	--	915	130	--	24	--	--	1,021	1,015
Lubricants	--	--	4,652	967	--	-20	--	2,351	3,288	11,988
Waxes	--	--	132	125	--	22	--	110	125	592
Petroleum Coke	--	--	24,940	24	--	367	--	15,786	8,811	6,893
Marketable	--	--	19,146	24	--	367	--	15,786	3,017	6,893
Catalyst	--	--	5,794	--	--	--	--	--	5,794	--
Asphalt and Road Oil	--	--	10,818	1,400	--	1,025	--	496	10,697	23,593
Still Gas	--	--	20,079	--	--	--	--	--	20,079	--
Miscellaneous Products	--	--	2,744	1	--	22	--	60	2,663	961
Total	553,236	38,288	589,243	249,629	27,826	-14,785	558,313	296,902	617,792	1,614,485

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	3,961,803	--	--	2,105,734	256,904	-210,334	5,338,581	1,196,194	0	804,768
Hydrocarbon Gas Liquids	1,976,299	-7,446	212,486	57,370	--	42,557	201,610	793,972	1,200,570	236,063
Natural Gas Liquids	1,976,299	-7,446	124,644	52,307	--	42,635	201,610	793,972	1,107,587	234,053
Ethane	803,311	--	2,091	--	--	-6,386	--	148,656	663,132	56,797
Propane	621,995	--	95,187	37,444	--	23,998	--	456,974	273,654	87,594
Normal Butane	177,143	--	32,203	12,335	--	17,069	57,538	130,200	16,874	51,350
Isobutane	151,066	--	-4,837	2,476	--	2,322	76,348	1,693	68,342	11,996
Natural Gasoline	222,784	-7,446	--	52	--	5,632	67,724	56,449	85,584	26,316
Refinery Olefins	--	--	87,842	5,063	--	-78	--	--	92,983	2,010
Ethylene	--	--	256	--	--	0	--	--	256	0
Propylene	--	--	88,928	4,191	--	-229	--	--	93,348	1,168
Normal Butylene	--	--	-1,582	872	--	191	--	--	-901	837
Isobutylene	--	--	240	--	--	-40	--	--	280	5
Other Liquids	--	407,121	--	366,878	80,712	-4,395	615,869	156,414	86,822	319,022
Hydrogen/Biofuels/Other Hydrocarbons	--	407,125	--	12,466	65,360	1,512	392,060	37,141	54,238	30,158
Hydrogen	--	--	--	--	73,940	--	73,940	--	0	--
Biofuels (including Fuel Ethanol)	--	407,125	--	12,390	-8,641	1,507	317,988	37,141	54,238	30,137
Fuel Ethanol ⁵	--	335,756	--	1,645	-8,641	1,545	296,765	30,450	0	23,556
Biofuels (excluding Fuel Ethanol)	--	71,369	--	10,745	--	-38	21,223	6,691	54,238	6,582
Biodiesel	--	35,408	--	5,099	--	-934	14,824	6,691	19,925	3,251
Renewable Diesel Fuel	--	31,736	--	5,584	--	735	4,131	NA	32,455	3,087
Other Biofuels ⁶	--	4,225	--	62	--	161	2,268	NA	1,857	244
Other Hydrocarbons	--	--	--	76	61	5	132	--	0	21
Unfinished Oils	--	--	--	174,630	--	3,934	40,619	97,643	32,434	84,185
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	179,782	15,352	-9,855	183,354	21,630	0	204,639
Reformulated	--	-2	--	52,037	62,503	-3,798	118,299	37	0	43,559
Conventional	--	-2	--	127,745	-47,151	-6,057	65,055	21,594	0	161,080
Aviation Gasoline Blend. Comp.	--	--	--	--	--	14	-164	--	150	39
Finished Petroleum Products	--	2,196	6,285,598	257,821	-6,711	-6,000	--	1,034,231	5,510,672	254,633
Finished Motor Gasoline	--	2,091	3,200,957	33,513	-6,711	-1,058	--	293,105	2,937,802	16,685
Reformulated	--	--	987,418	--	-57,312	1	--	--	930,105	23
Conventional	--	2,091	2,213,539	33,513	50,601	-1,059	--	293,105	2,007,698	16,662
Finished Aviation Gasoline	--	--	3,622	314	--	-134	--	--	4,070	1,117
Kerosene-Type Jet Fuel	--	83	541,145	39,999	--	1,985	--	60,045	519,198	37,783
Kerosene	--	0	3,267	18	--	-414	--	2,496	1,203	1,831
Distillate Fuel Oil ⁵	--	22	1,676,143	62,066	--	-9,401	--	416,609	1,331,022	120,527
15 ppm sulfur and under	--	22	1,604,707	60,155	--	-10,770	--	354,075	1,321,579	109,409
Greater than 15 ppm to 500 ppm sulfur	--	0	31,737	1,411	--	31	--	29,842	3,274	2,816
Greater than 500 ppm sulfur	--	0	39,699	500	--	1,338	--	32,693	6,168	8,302
Residual Fuel Oil	--	--	82,539	73,270	--	3,692	--	34,935	117,182	29,081
Less than 0.31 percent sulfur	--	--	13,620	2,488	--	-521	--	NA	NA	2,019
0.31 to 1.00 percent sulfur	--	--	37,372	11,367	--	162	--	NA	NA	6,474
Greater than 1.00 percent sulfur	--	--	31,547	59,415	--	4,051	--	NA	NA	20,588
Petrochemical Feedstocks	--	--	74,950	4,921	--	27	--	--	79,844	2,567
Naphtha for Petro. Feed. Use	--	--	42,500	3,871	--	-57	--	--	46,428	1,825
Other Oils for Petro. Feed. Use	--	--	32,450	1,050	--	84	--	--	33,416	742
Special Naphthas	--	--	11,292	4,391	--	-33	--	--	15,716	1,015
Lubricants	--	--	52,845	16,267	--	-846	--	32,318	37,640	11,988
Waxes	--	--	1,842	1,944	--	43	--	1,554	2,189	592
Petroleum Coke	--	--	270,267	3,194	--	73	--	187,390	85,998	6,893
Marketable	--	--	203,689	3,194	--	73	--	187,390	19,420	6,893
Catalyst	--	--	66,578	--	--	--	--	--	66,578	--
Asphalt and Road Oil	--	--	115,308	17,913	--	-274	--	5,175	128,320	23,593
Still Gas	--	--	221,465	--	--	--	--	--	221,465	--
Miscellaneous Products	--	--	29,956	11	--	340	--	604	29,023	961
Total	5,938,102	401,871	6,498,084	2,787,803	330,905	-178,171	6,156,060	3,180,812	6,798,064	1,614,485

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	12,375	--	--	6,243	700	-1,108	16,384	4,042	0
Hydrocarbon Gas Liquids	6,066	-25	338	192	--	-228	794	2,401	3,604
Natural Gas Liquids	6,066	-25	111	174	--	-223	794	2,401	3,354
Ethane	2,505	--	6	--	--	136	--	456	1,919
Propane	1,906	--	288	129	--	33	--	1,358	932
Normal Butane	526	--	-163	40	--	-371	347	410	16
Isobutane	470	--	-20	5	--	1	244	4	208
Natural Gasoline	660	-25	--	0	--	-21	203	174	279
Refinery Olefins	--	--	228	17	--	-5	--	--	251
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	234	11	--	5	--	--	240
Normal Butylene	--	--	-7	7	--	-9	--	--	8
Isobutylene	--	--	0	--	--	-1	--	--	2
Other Liquids	--	1,294	--	1,066	190	432	1,433	365	321
Hydrogen/Biofuels/Other Hydrocarbons	--	1,294	--	70	181	106	1,179	72	188
Hydrogen	--	--	--	--	227	--	227	--	0
Biofuels (including Fuel Ethanol)	--	1,294	--	70	-47	105	952	72	188
Fuel Ethanol ⁵	--	1,052	--	17	-47	64	892	65	0
Biofuels (excluding Fuel Ethanol)	--	243	--	53	--	41	59	7	188
Biodiesel	--	113	--	30	--	11	41	7	84
Renewable Diesel Fuel	--	113	--	23	--	28	15	NA	93
Other Biofuels ⁶	--	17	--	--	--	2	3	NA	12
Other Hydrocarbons	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	527	--	-33	200	226	134
Motor Gasoline Blend.Comp. (MGBG) ⁵	--	0	--	469	9	359	53	67	0
Reformulated	--	0	--	145	319	130	334	0	0
Conventional	--	0	--	325	-310	229	-281	67	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	-1
Finished Petroleum Products	--	7	19,303	820	37	411	--	3,088	16,668
Finished Motor Gasoline	--	7	9,676	99	37	-14	--	984	8,849
Reformulated	--	--	3,011	--	-280	0	--	--	2,732
Conventional	--	7	6,665	99	317	-14	--	984	6,118
Finished Aviation Gasoline	--	--	11	1	--	-1	--	--	13
Kerosene-Type Jet Fuel	--	0	1,659	144	--	41	--	155	1,607
Kerosene	--	--	31	--	--	23	--	7	0
Distillate Fuel Oil ⁵	--	0	5,338	228	--	333	--	1,172	4,061
15 ppm sulfur and under	--	0	5,115	227	--	319	--	982	4,041
Greater than 15 ppm to 500 ppm sulfur	--	0	104	1	--	3	--	88	14
Greater than 500 ppm sulfur	--	--	120	0	--	12	--	102	6
Residual Fuel Oil	--	--	219	250	--	-23	--	142	350
Less than 0.31 percent sulfur	--	--	44	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	119	73	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	56	177	--	-19	--	NA	NA
Petrochemical Feedstocks	--	--	226	11	--	5	--	--	232
Naphtha for Petro. Feed. Use	--	--	137	8	--	1	--	--	144
Other Oils for Petro. Feed. Use	--	--	88	3	--	4	--	--	88
Special Naphthas	--	--	31	4	--	1	--	--	34
Lubricants	--	--	155	32	--	-1	--	78	110
Waxes	--	--	4	4	--	1	--	4	4
Petroleum Coke	--	--	831	1	--	12	--	526	294
Marketable	--	--	638	1	--	12	--	526	101
Catalyst	--	--	193	--	--	--	--	--	193
Asphalt and Road Oil	--	--	361	47	--	34	--	17	357
Still Gas	--	--	669	--	--	--	--	--	669
Miscellaneous Products	--	--	91	0	--	1	--	2	89
Total	18,441	1,276	19,641	8,321	928	-493	18,610	9,897	20,593

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,862	--	--	6,305	769	-630	15,984	3,581	0
Hydrocarbon Gas Liquids	5,917	-22	636	172	--	127	604	2,377	3,595
Natural Gas Liquids	5,917	-22	373	157	--	128	604	2,377	3,316
Ethane	2,405	--	6	--	--	-19	--	445	1,985
Propane	1,862	--	285	112	--	72	--	1,368	819
Normal Butane	530	--	96	37	--	51	172	390	51
Isobutane	452	--	-14	7	--	7	229	5	205
Natural Gasoline	667	-22	--	0	--	17	203	169	256
Refinery Olefins	--	--	263	15	--	0	--	--	278
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	266	13	--	-1	--	--	279
Normal Butylene	--	--	-5	3	--	1	--	--	-3
Isobutylene	--	--	1	--	--	0	--	--	1
Other Liquids	--	1,219	--	1,098	242	-13	1,844	468	260
Hydrogen/Biofuels/Other Hydrocarbons	--	1,219	--	37	196	5	1,174	111	162
Hydrogen	--	--	--	--	221	--	221	--	0
Biofuels (including Fuel Ethanol)	--	1,219	--	37	-26	5	952	111	162
Fuel Ethanol ⁵	--	1,005	--	5	-26	5	889	91	0
Biofuels (excluding Fuel Ethanol)	--	214	--	32	--	0	64	20	162
Biodiesel	--	106	--	15	--	-3	44	20	60
Renewable Diesel Fuel	--	95	--	17	--	2	12	NA	97
Other Biofuels ⁶	--	13	--	0	--	0	7	NA	6
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	523	--	12	122	292	97
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	538	46	-30	549	65	0
Reformulated	--	0	--	156	187	-11	354	0	0
Conventional	--	0	--	382	-141	-18	195	65	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	7	18,819	772	-20	-18	--	3,097	16,499
Finished Motor Gasoline	--	6	9,584	100	-20	-3	--	878	8,796
Reformulated	--	--	2,956	--	-172	0	--	--	2,785
Conventional	--	6	6,627	100	152	-3	--	878	6,011
Finished Aviation Gasoline	--	--	11	1	--	0	--	--	12
Kerosene-Type Jet Fuel	--	0	1,620	120	--	6	--	180	1,554
Kerosene	--	0	10	0	--	-1	--	7	4
Distillate Fuel Oil ⁵	--	0	5,018	186	--	-28	--	1,247	3,985
15 ppm sulfur and under	--	0	4,805	180	--	-32	--	1,060	3,957
Greater than 15 ppm to 500 ppm sulfur	--	0	95	4	--	0	--	89	10
Greater than 500 ppm sulfur	--	0	119	1	--	4	--	98	18
Residual Fuel Oil	--	--	247	219	--	11	--	105	351
Less than 0.31 percent sulfur	--	--	41	7	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	112	34	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	94	178	--	12	--	NA	NA
Petrochemical Feedstocks	--	--	224	15	--	0	--	--	239
Naphtha for Petro. Feed. Use	--	--	127	12	--	0	--	--	139
Other Oils for Petro. Feed. Use	--	--	97	3	--	0	--	--	100
Special Naphthas	--	--	34	13	--	0	--	--	47
Lubricants	--	--	158	49	--	-3	--	97	113
Waxes	--	--	6	6	--	0	--	5	7
Petroleum Coke	--	--	809	10	--	0	--	561	257
Marketable	--	--	610	10	--	0	--	561	58
Catalyst	--	--	199	--	--	--	--	--	199
Asphalt and Road Oil	--	--	345	54	--	-1	--	15	384
Still Gas	--	--	663	--	--	--	--	--	663
Miscellaneous Products	--	--	90	0	--	1	--	2	87
Total	17,779	1,203	19,455	8,347	991	-533	18,431	9,523	20,353

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	1,885	--	--	19,062	2,712	1,325	-1,071	24,623	1,432	0	7,340
Hydrocarbon Gas Liquids	20,727	-9	265	1,300	2,515	--	-508	1,949	6,120	17,237	12,074
Natural Gas Liquids	20,727	-9	-75	1,128	2,356	--	-483	1,949	6,120	16,541	11,796
Ethane	9,157	--	--	--	-5,700	--	-131	--	2,326	1,262	1,038
Propane	6,780	--	477	1,085	6,695	--	127	--	3,068	11,842	8,598
Normal Butane	2,023	--	-502	28	1,999	--	-471	1,606	674	1,739	1,774
Isobutane	942	--	-50	15	-388	--	14	139	1	365	117
Natural Gasoline	1,825	-9	--	--	-250	--	-22	204	51	1,332	269
Refinery Olefins	--	--	340	172	159	--	-25	--	--	696	278
Ethylene	--	--	15	--	--	--	--	--	--	15	--
Propylene	--	--	315	172	159	--	-6	--	--	652	164
Normal Butylene	--	--	1	--	--	--	22	--	--	-21	109
Isobutylene	--	--	9	--	--	--	-41	--	--	50	5
Other Liquids	--	541	--	14,527	59,357	10,450	1,497	82,874	124	380	61,007
Hydrogen/Biofuels/Other Hydrocarbons	--	541	--	746	8,959	1,155	773	10,300	94	234	8,136
Hydrogen	--	--	--	--	--	89	--	89	--	0	--
Biofuels (including Fuel Ethanol)	--	541	--	746	8,959	1,066	773	10,211	94	234	8,136
Fuel Ethanol ⁶	--	369	--	251	8,852	1,066	636	9,811	91	0	7,104
Biofuels (excluding Fuel Ethanol) ⁷	--	172	--	495	107	--	137	400	3	234	1,032
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,153	-20	--	195	764	28	146	3,975
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	12,628	50,418	9,295	529	71,810	2	0	48,896
Reformulated	--	--	--	4,341	6,523	3,718	1,694	12,888	0	0	14,503
Conventional	--	--	--	8,287	43,895	5,577	-1,165	58,922	2	0	34,393
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	110,284	14,547	45,029	-10,361	3,894	--	1,132	154,473	54,606
Finished Motor Gasoline	--	--	95,695	2,453	1,850	-10,361	-1,041	--	39	90,638	2,206
Reformulated	--	--	36,822	--	--	-3,595	0	--	--	33,227	5
Conventional	--	--	58,873	2,453	1,850	-6,766	-1,041	--	39	57,411	2,201
Finished Aviation Gasoline	--	--	--	--	46	--	-48	--	--	94	165
Kerosene-Type Jet Fuel	--	--	2,675	1,733	14,471	--	424	--	17	18,438	9,004
Kerosene	--	--	226	--	37	--	413	--	2	-152	936
Distillate Fuel Oil ⁶	--	0	7,422	5,920	27,050	--	4,311	--	222	35,860	30,736
15 ppm sulfur and under	--	0	7,538	5,907	26,326	--	4,095	--	10	35,666	28,383
Greater than 15 ppm to 500 ppm sulfur	--	--	41	13	1	--	-73	--	211	-83	712
Greater than 500 ppm sulfur	--	--	-157	--	723	--	289	--	1	276	1,641
Residual Fuel Oil	--	--	1,179	3,483	--	--	130	--	210	4,322	5,594
Less than 0.31 percent sulfur	--	--	-11	--	--	--	-106	--	NA	NA	274
0.31 to 1.00 percent sulfur	--	--	928	2,105	--	--	115	--	NA	NA	1,177
Greater than 1.00 percent sulfur	--	--	262	1,378	--	--	121	--	NA	NA	4,143
Petrochemical Feedstocks	--	--	--	44	--	--	--	--	--	44	--
Naphtha for Petro. Feed. Use	--	--	--	44	--	--	--	--	--	44	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	9	3	--	--	3	--	--	9	55
Lubricants	--	--	391	115	336	--	-56	--	269	629	1,432
Waxes	--	--	-19	78	--	--	6	--	65	-12	205
Petroleum Coke	--	--	681	--	274	--	--	--	168	788	--
Marketable	--	--	251	--	274	--	--	--	168	358	--
Catalyst	--	--	430	--	--	--	--	--	--	430	--
Asphalt and Road Oil	--	--	1,102	718	965	--	-238	--	126	2,897	4,215
Still Gas	--	--	828	--	--	--	--	--	--	828	--
Miscellaneous Products	--	--	95	--	--	--	-10	--	16	89	58
Total	22,612	532	110,549	49,436	109,613	1,414	3,812	109,446	8,808	172,090	135,028

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report,"

EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic

Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data

from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA

analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	20,747	--	--	198,961	29,744	16,242	-314	248,867	17,141	0	7,340
Hydrocarbon Gas Liquids	211,389	-98	7,356	13,244	22,803	--	1,861	12,108	85,118	155,608	12,074
Natural Gas Liquids	211,389	-98	3,224	10,408	19,370	--	1,842	12,108	85,118	145,226	11,796
Ethane	85,807	--	--	--	-57,287	--	354	--	23,941	4,225	1,038
Propane	73,009	--	4,589	9,752	66,461	--	1,077	--	46,135	106,599	8,598
Normal Butane	22,186	--	-774	458	16,874	--	421	8,576	14,307	15,440	1,774
Isobutane	9,987	--	-591	198	-3,827	--	-19	1,385	8	4,393	117
Natural Gasoline	20,400	-98	--	--	-2,851	--	9	2,147	727	14,569	269
Refinery Olefins	--	--	4,132	2,836	3,433	--	19	--	--	10,382	278
Ethylene	--	--	162	--	--	--	--	--	--	162	--
Propylene	--	--	3,479	2,836	3,433	--	18	--	--	9,730	164
Normal Butylene	--	--	0	--	--	--	25	--	--	-25	109
Isobutylene	--	--	491	--	--	--	-24	--	--	515	5
Other Liquids	--	5,325	--	162,520	663,116	104,986	-8,540	938,475	2,754	3,257	61,007
Hydrogen/Biofuels/Other Hydrocarbons	--	5,325	--	2,710	97,256	11,375	1,068	112,450	1,792	1,356	8,136
Hydrogen	--	--	--	--	--	1,032	--	1,032	--	0	--
Biofuels (including Fuel Ethanol)	--	5,325	--	2,710	97,256	10,343	1,068	111,418	1,792	1,356	8,136
Fuel Ethanol ⁶	--	3,830	--	444	95,541	10,343	1,077	107,595	1,487	0	7,104
Biofuels (excluding Fuel Ethanol) ⁷	--	1,494	--	2,266	1,715	--	-9	3,823	305	1,356	1,032
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	12,930	-3	--	403	10,049	574	1,901	3,975
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	146,880	565,863	93,611	-10,011	815,976	389	0	48,896
Reformulated	--	--	--	50,005	89,934	17,062	-4,880	161,872	9	0	14,503
Conventional	--	--	--	96,875	475,929	76,549	-5,131	654,104	380	0	34,393
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	6	1,204,042	121,457	468,175	-103,954	-15,871	--	22,446	1,683,151	54,606
Finished Motor Gasoline	--	--	1,055,137	25,101	25,288	-103,954	-710	--	775	1,001,507	2,206
Reformulated	--	--	388,978	--	--	-23,119	-1	--	--	365,860	5
Conventional	--	--	666,159	25,101	25,288	-80,835	-709	--	775	635,647	2,201
Finished Aviation Gasoline	--	--	-8	143	834	--	-82	--	--	1,051	165
Kerosene-Type Jet Fuel	--	--	29,810	10,275	154,008	--	-153	--	323	193,923	9,004
Kerosene	--	--	669	--	246	--	-822	--	118	1,619	936
Distillate Fuel Oil ⁶	--	6	71,968	49,271	266,351	--	-13,846	--	7,906	393,536	30,736
15 ppm sulfur and under	--	6	73,427	49,135	257,337	--	-12,759	--	6,066	386,598	28,383
Greater than 15 ppm to 500 ppm sulfur	--	--	132	74	71	--	-323	--	1,390	-790	712
Greater than 500 ppm sulfur	--	--	-1,591	62	8,943	--	-764	--	450	7,728	1,641
Residual Fuel Oil	--	--	13,922	22,623	265	--	1,053	--	2,286	33,471	5,594
Less than 0.31 percent sulfur	--	--	-72	1,608	93	--	-33	--	NA	NA	274
0.31 to 1.00 percent sulfur	--	--	10,653	7,418	--	--	-116	--	NA	NA	1,177
Greater than 1.00 percent sulfur	--	--	3,341	13,597	172	--	1,202	--	NA	NA	4,143
Petrochemical Feedstocks	--	--	--	539	--	--	--	--	--	539	--
Naphtha for Petro. Feed. Use	--	--	--	528	--	--	--	--	--	528	--
Other Oils for Petro. Feed. Use	--	--	--	11	--	--	--	--	--	11	--
Special Naphthas	--	--	117	120	25	--	27	--	--	235	55
Lubricants	--	--	4,133	1,422	5,433	--	-63	--	2,656	8,395	1,432
Waxes	--	--	-107	1,065	--	--	-30	--	867	121	205
Petroleum Coke	--	--	7,526	12	3,587	--	--	--	6,378	4,747	--
Marketable	--	--	2,806	12	3,587	--	--	--	6,378	27	--
Catalyst	--	--	4,720	--	--	--	--	--	--	4,720	--
Asphalt and Road Oil	--	--	10,715	10,886	12,138	--	-1,236	--	936	34,039	4,215
Still Gas	--	--	9,166	--	--	--	--	--	--	9,166	--
Miscellaneous Products	--	--	994	--	--	--	-9	--	201	802	58
Total	232,136	5,233	1,211,398	496,182	1,183,837	17,274	-22,864	1,199,450	127,459	1,842,016	135,028

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	635	90	44	-36	821	48	0
Hydrocarbon Gas Liquids	691	0	9	43	84	--	-17	65	204	575
Natural Gas Liquids	691	0	-3	38	79	--	-16	65	204	551
Ethane	305	--	--	--	-190	--	-4	--	78	42
Propane	226	--	16	36	223	--	4	--	102	395
Normal Butane	67	--	-17	1	67	--	-16	54	22	58
Isobutane	31	--	-2	1	-13	--	0	5	0	12
Natural Gasoline	61	0	--	--	-8	--	-1	7	2	44
Refinery Olefins	--	--	11	6	5	--	-1	--	--	23
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	11	6	5	--	0	--	--	22
Normal Butylene	--	--	0	--	--	--	1	--	--	-1
Isobutylene	--	--	0	--	--	--	-1	--	--	2
Other Liquids	--	18	--	484	1,979	348	50	2,762	4	13
Hydrogen/Biofuels/Other Hydrocarbons	--	18	--	25	299	39	26	343	3	8
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	18	--	25	299	36	26	340	3	8
Fuel Ethanol ⁶	--	12	--	8	295	36	21	327	3	0
Biofuels (excluding Fuel Ethanol) ⁷	--	6	--	17	4	--	5	13	0	8
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	38	-1	--	7	25	1	5
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	421	1,681	310	18	2,394	0	0
Reformulated	--	--	--	145	217	124	56	430	0	0
Conventional	--	--	--	276	1,463	186	-39	1,964	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,676	485	1,501	-345	130	--	38	5,149
Finished Motor Gasoline	--	--	3,190	82	62	-345	-35	--	1	3,021
Reformulated	--	--	1,227	--	--	-120	0	--	--	1,108
Conventional	--	--	1,962	82	62	-226	-35	--	1	1,914
Finished Aviation Gasoline	--	--	--	--	2	--	-2	--	--	3
Kerosene-Type Jet Fuel	--	--	89	58	482	--	14	--	1	615
Kerosene	--	--	8	--	1	--	14	--	0	-5
Distillate Fuel Oil ⁶	--	0	247	197	902	--	144	--	7	1,195
15 ppm sulfur and under	--	0	251	197	878	--	137	--	0	1,189
Greater than 15 ppm to 500 ppm sulfur	--	--	1	0	0	--	-2	--	7	-3
Greater than 500 ppm sulfur	--	--	-5	--	24	--	10	--	0	9
Residual Fuel Oil	--	--	39	116	--	--	4	--	7	144
Less than 0.31 percent sulfur	--	--	0	--	--	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	31	70	--	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	9	46	--	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	--	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	--	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	0	0	--	--	0	--	--	0
Lubricants	--	--	13	4	11	--	-2	--	9	21
Waxes	--	--	-1	3	--	--	0	--	2	0
Petroleum Coke	--	--	23	--	9	--	--	--	6	26
Marketable	--	--	8	--	9	--	--	--	6	12
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	37	24	32	--	-8	--	4	97
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	3	--	--	--	0	--	1	3
Total	754	18	3,685	1,648	3,654	47	127	3,648	294	5,736

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	62	--	--	596	89	49	-1	745	51	0
Hydrocarbon Gas Liquids	633	0	22	40	68	--	6	36	255	466
Natural Gas Liquids	633	0	10	31	58	--	6	36	255	435
Ethane	257	--	--	--	-172	--	1	--	72	13
Propane	219	--	14	29	199	--	3	--	138	319
Normal Butane	66	--	-2	1	51	--	1	26	43	46
Isobutane	30	--	-2	1	-11	--	0	4	0	13
Natural Gasoline	61	0	--	--	-9	--	0	6	2	44
Refinery Olefins	--	--	12	8	10	--	0	--	--	31
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	10	8	10	--	0	--	--	29
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	2
Other Liquids	--	16	--	487	1,985	314	-26	2,810	8	10
Hydrogen/Biofuels/Other Hydrocarbons	--	16	--	8	291	34	3	337	5	4
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	16	--	8	291	31	3	334	5	4
Fuel Ethanol ⁶	--	11	--	1	286	31	3	322	4	0
Biofuels (excluding Fuel Ethanol) ⁷	--	4	--	7	5	--	0	11	1	4
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	39	0	--	1	30	2	6
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	440	1,694	280	-30	2,443	1	0
Reformulated	--	--	--	150	269	51	-15	485	0	0
Conventional	--	--	--	290	1,425	229	-15	1,958	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,605	364	1,402	-311	-48	--	67	5,039
Finished Motor Gasoline	--	--	3,159	75	76	-311	-2	--	2	2,999
Reformulated	--	--	1,165	--	--	-69	0	--	--	1,095
Conventional	--	--	1,994	75	76	-242	-2	--	2	1,903
Finished Aviation Gasoline	--	--	0	0	2	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	89	31	461	--	0	--	1	581
Kerosene	--	--	2	--	1	--	-2	--	0	5
Distillate Fuel Oil ⁶	--	0	215	148	797	--	-41	--	24	1,178
15 ppm sulfur and under	--	0	220	147	770	--	-38	--	18	1,157
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	0	--	-1	--	4	-2
Greater than 500 ppm sulfur	--	--	-5	0	27	--	-2	--	1	23
Residual Fuel Oil	--	--	42	68	1	--	3	--	7	100
Less than 0.31 percent sulfur	--	--	0	5	0	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	22	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	10	41	1	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	--	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	0	0	0	--	0	--	--	1
Lubricants	--	--	12	4	16	--	0	--	8	25
Waxes	--	--	0	3	--	--	0	--	3	0
Petroleum Coke	--	--	23	0	11	--	--	--	19	14
Marketable	--	--	8	0	11	--	--	--	19	0
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	32	33	36	--	-4	--	3	102
Still Gas	--	--	27	--	--	--	--	--	--	27
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	695	16	3,627	1,486	3,544	52	-68	3,591	382	5,515

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	51,700	--	--	85,661	-24,021	-1,874	-6,946	115,856	2,556	0	106,819
Hydrocarbon Gas Liquids	33,912	-700	688	2,466	-12,875	--	-934	4,016	8,138	12,271	59,136
Natural Gas Liquids	33,912	-700	-309	2,116	-12,366	--	-915	4,016	8,138	11,414	58,732
Ethane	12,480	--	--	--	-5,674	--	771	--	2,872	3,163	6,990
Propane	11,740	--	2,315	1,446	-9,279	--	1,033	--	104	5,085	26,054
Normal Butane	3,781	--	-2,366	517	-4,044	--	-3,121	1,311	89	-391	13,272
Isobutane	2,096	--	-258	146	977	--	85	2,039	2	835	2,274
Natural Gasoline	3,815	-700	--	7	5,654	--	317	666	5,070	2,723	10,142
Refinery Olefins	--	--	997	350	-509	--	-19	--	--	857	404
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	981	151	-509	--	3	--	--	620	386
Normal Butylene	--	--	16	199	--	--	-22	--	--	237	18
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,498	--	805	-14,122	-2,880	1,978	11,533	3,283	-492	66,836
Hydrogen/Biofuels/Other Hydrocarbons	--	32,499	--	143	-19,155	-1,362	748	8,672	1,020	1,686	10,421
Hydrogen	--	--	--	--	--	1,098	--	1,098	--	0	--
Biofuels (including Fuel Ethanol)	--	32,499	--	143	-19,155	-2,474	738	7,570	1,020	1,686	10,400
Fuel Ethanol	--	29,805	--	--	-18,349	-2,474	753	7,293	936	0	9,352
Biofuels (excluding Fuel Ethanol) ⁶	--	2,694	--	143	-806	--	-15	277	84	1,686	1,048
Other Hydrocarbons	--	--	--	--	--	14	10	4	--	0	21
Unfinished Oils	--	--	--	--	-963	--	-889	-134	2,238	-2,178	13,378
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	662	5,996	-1,518	2,119	2,995	25	0	43,037
Reformulated	--	0	--	--	417	1,653	221	1,849	--	0	4,444
Conventional	--	-1	--	662	5,579	-3,171	1,898	1,146	25	0	38,592
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	151	137,481	1,384	6	3,992	3,001	--	602	139,410	53,858
Finished Motor Gasoline	--	153	73,882	--	96	3,992	-60	--	255	77,927	3,913
Reformulated	--	--	10,232	--	--	-1,537	--	--	--	8,695	--
Conventional	--	153	63,650	--	96	5,529	-60	--	255	69,232	3,913
Finished Aviation Gasoline	--	--	--	2	47	--	37	--	--	12	191
Kerosene-Type Jet Fuel	--	--	8,206	--	791	--	404	--	11	8,582	7,251
Kerosene	--	--	300	--	--	--	152	--	1	147	300
Distillate Fuel Oil	--	-2	36,833	421	1,983	--	1,516	--	92	37,626	27,590
15 ppm sulfur and under	--	-2	36,835	417	1,879	--	1,504	--	0	37,625	26,946
Greater than 15 ppm to 500 ppm sulfur	--	0	73	3	104	--	-64	--	13	231	321
Greater than 500 ppm sulfur	--	--	-75	1	--	--	76	--	79	-229	323
Residual Fuel Oil	--	--	1,141	115	-1,179	--	-9	--	--	86	1,085
Less than 0.31 percent sulfur	--	--	71	--	-236	--	68	--	NA	NA	190
0.31 to 1.00 percent sulfur	--	--	492	7	-234	--	-59	--	NA	NA	223
Greater than 1.00 percent sulfur	--	--	578	108	-709	--	-18	--	NA	NA	672
Petrochemical Feedstocks	--	--	864	137	-129	--	-64	--	--	936	514
Naphtha for Petro. Feed. Use	--	--	578	79	-109	--	-65	--	--	613	389
Other Oils for Petro. Feed. Use	--	--	286	58	-20	--	1	--	--	323	125
Special Naphthas	--	--	-16	3	33	--	4	--	--	16	113
Lubricants	--	--	173	223	149	--	-19	--	176	388	729
Waxes	--	--	29	9	--	--	-9	--	23	24	48
Petroleum Coke	--	--	5,526	24	-969	--	225	--	30	4,326	2,106
Marketable	--	--	4,181	24	-969	--	225	--	30	2,981	2,106
Catalyst	--	--	1,345	--	--	--	--	--	--	1,345	--
Asphalt and Road Oil	--	--	5,893	450	-822	--	831	--	12	4,678	9,906
Still Gas	--	--	4,197	--	--	--	--	--	--	4,197	--
Miscellaneous Products	--	--	453	--	6	--	-7	--	1	465	112
Total	85,612	31,949	138,169	90,316	-51,012	-762	-2,902	131,405	14,579	151,189	286,649

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA

analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	557,664	--	--	950,499	-186,892	-25,950	-10,820	1,283,521	22,620	0	106,819
Hydrocarbon Gas Liquids	370,684	-7,017	40,627	24,971	-166,534	--	9,225	34,318	80,593	138,594	59,136
Natural Gas Liquids	370,684	-7,017	26,586	22,795	-157,535	--	9,381	34,318	80,593	131,220	58,732
Ethane	137,481	--	--	--	-70,499	--	57	--	23,822	43,103	6,990
Propane	126,332	--	25,496	15,129	-104,491	--	4,616	--	1,582	56,268	26,054
Normal Butane	42,262	--	3,734	5,477	-40,031	--	4,419	5,960	1,339	-276	13,272
Isobutane	22,033	--	-2,644	2,140	6,994	--	-78	19,860	28	8,713	2,274
Natural Gasoline	42,576	-7,017	--	49	50,492	--	367	8,498	53,823	23,412	10,142
Refinery Olefins	--	--	14,041	2,176	-8,999	--	-156	--	--	7,374	404
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	13,404	1,355	-8,999	--	-67	--	--	5,827	386
Normal Butylene	--	--	637	821	--	--	-89	--	--	1,547	18
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	347,770	--	5,650	-153,711	-21,338	-3,531	152,165	36,343	-6,606	66,836
Hydrogen/Biofuels/Other Hydrocarbons	--	347,774	--	962	-208,168	-14,940	-199	98,004	10,761	17,062	10,421
Hydrogen	--	--	--	--	--	12,591	--	12,591	--	0	--
Biofuels (including Fuel Ethanol)	--	347,774	--	962	-208,168	-27,668	-204	85,281	10,761	17,062	10,400
Fuel Ethanol	--	317,053	--	--	-200,202	-27,668	-19	80,776	8,426	0	9,352
Biofuels (excluding Fuel Ethanol) ⁶	--	30,721	--	962	-7,966	--	-185	4,505	2,335	17,062	1,048
Other Hydrocarbons	--	--	--	--	--	137	5	132	--	0	21
Unfinished Oils	--	--	--	75	-6,966	--	108	-7,558	24,226	-23,667	13,378
Motor Gasoline Blend.Comp. (MGBC)	--	-4	--	4,613	61,423	-6,398	-3,440	61,719	1,355	0	43,037
Reformulated	--	-2	--	--	13,340	7,229	-205	20,773	--	0	4,444
Conventional	--	-2	--	4,613	48,083	-13,627	-3,235	40,946	1,355	0	38,592
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,458	1,502,925	14,381	10,287	34,066	-592	--	12,475	1,551,234	53,858
Finished Motor Gasoline	--	1,487	823,955	--	8,028	34,066	-489	--	3,984	864,041	3,913
Reformulated	--	--	110,595	--	--	-5,775	--	--	--	104,820	--
Conventional	--	1,487	713,360	--	8,028	39,841	-489	--	3,984	759,221	3,913
Finished Aviation Gasoline	--	--	203	46	262	--	19	--	--	492	191
Kerosene-Type Jet Fuel	--	--	88,533	34	7,972	--	430	--	218	95,891	7,251
Kerosene	--	0	1,243	--	26	--	163	--	9	1,097	300
Distillate Fuel Oil	--	-29	392,729	3,156	23,977	--	-1,583	--	1,653	419,763	27,590
15 ppm sulfur and under	--	-29	392,676	2,970	22,631	--	-1,636	--	7	419,877	26,946
Greater than 15 ppm to 500 ppm sulfur	--	0	1,269	52	1,297	--	85	--	373	2,160	321
Greater than 500 ppm sulfur	--	0	-1,216	134	49	--	-32	--	1,273	-2,274	323
Residual Fuel Oil	--	--	12,343	1,305	-9,243	--	128	--	11	4,266	1,085
Less than 0.31 percent sulfur	--	--	856	--	-883	--	139	--	NA	NA	190
0.31 to 1.00 percent sulfur	--	--	4,987	105	-3,662	--	27	--	NA	NA	223
Greater than 1.00 percent sulfur	--	--	6,500	1,200	-4,698	--	-38	--	NA	NA	672
Petrochemical Feedstocks	--	--	9,610	1,625	-823	--	-18	--	--	10,430	514
Naphtha for Petro. Feed. Use	--	--	5,665	958	-700	--	-23	--	--	5,946	389
Other Oils for Petro. Feed. Use	--	--	3,945	667	-123	--	5	--	--	4,484	125
Special Naphthas	--	--	-302	81	99	--	-39	--	--	-83	113
Lubricants	--	--	2,303	2,375	2,041	--	8	--	2,119	4,592	729
Waxes	--	--	398	146	--	--	8	--	399	137	48
Petroleum Coke	--	--	61,906	242	-10,781	--	604	--	3,334	47,429	2,106
Marketable	--	--	46,093	242	-10,781	--	604	--	3,334	31,616	2,106
Catalyst	--	--	15,813	--	--	--	--	--	--	15,813	--
Asphalt and Road Oil	--	--	57,615	5,371	-11,346	--	189	--	735	50,716	9,906
Still Gas	--	--	47,119	--	--	--	--	--	--	47,119	--
Miscellaneous Products	--	--	5,270	--	75	--	-12	--	12	5,345	112
Total	928,348	342,212	1,543,552	995,501	-496,851	-13,222	-5,717	1,470,004	152,032	1,683,222	286,649

-- = Not Applicable.

NA = No Data Reported.

1 = Not Available.

2 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

3 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

4 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

5 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

6 Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

7 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,723	--	--	2,855	-801	-62	-232	3,862	85	0
Hydrocarbon Gas Liquids	1,130	-23	23	82	-429	--	-31	134	271	409
Natural Gas Liquids	1,130	-23	-10	71	-412	--	-31	134	271	380
Ethane	416	--	--	--	-189	--	26	--	96	105
Propane	391	--	77	48	-309	--	34	--	3	169
Normal Butane	126	--	-79	17	-135	--	-104	44	3	-13
Isobutane	70	--	-9	5	33	--	3	68	0	28
Natural Gasoline	127	-23	--	0	188	--	11	22	169	91
Refinery Olefins	--	--	33	12	-17	--	-1	--	--	29
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	33	5	-17	--	0	--	--	21
Normal Butylene	--	--	1	7	--	--	-1	--	--	8
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,083	--	27	-471	-96	66	384	109	-16
Hydrogen/Biofuels/Other Hydrocarbons	--	1,083	--	5	-639	-45	25	289	34	56
Hydrogen	--	--	--	--	--	37	--	37	--	0
Biofuels (including Fuel Ethanol)	--	1,083	--	5	-639	-82	25	252	34	56
Fuel Ethanol	--	993	--	--	-612	-82	25	243	31	0
Biofuels (excluding Fuel Ethanol) ⁶	--	90	--	5	-27	--	-1	9	3	56
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	--	-32	--	-30	-4	75	-73
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	22	200	-51	71	100	1	0
Reformulated	--	0	--	--	14	55	7	62	--	0
Conventional	--	0	--	22	186	-106	63	38	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,583	46	0	133	100	--	20	4,647
Finished Motor Gasoline	--	5	2,463	--	3	133	-2	--	9	2,598
Reformulated	--	--	341	--	--	-51	--	--	--	290
Conventional	--	5	2,122	--	3	184	-2	--	9	2,308
Finished Aviation Gasoline	--	--	--	0	2	--	1	--	--	0
Kerosene-Type Jet Fuel	--	--	274	--	26	--	13	--	0	286
Kerosene	--	--	10	--	--	--	5	--	0	5
Distillate Fuel Oil	--	0	1,228	14	66	--	51	--	3	1,254
15 ppm sulfur and under	--	0	1,228	14	63	--	50	--	0	1,254
Greater than 15 ppm to 500 ppm sulfur	--	0	2	0	3	--	-2	--	0	8
Greater than 500 ppm sulfur	--	--	-3	0	--	--	3	--	3	-8
Residual Fuel Oil	--	--	38	4	-39	--	0	--	--	3
Less than 0.31 percent sulfur	--	--	2	--	-8	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	16	0	-8	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	4	-24	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-4	--	-2	--	--	31
Naphtha for Petro. Feed. Use	--	--	19	3	-4	--	-2	--	--	20
Other Oils for Petro. Feed. Use	--	--	10	2	-1	--	0	--	--	11
Special Naphthas	--	--	-1	0	1	--	0	--	--	1
Lubricants	--	--	6	7	5	--	-1	--	6	13
Waxes	--	--	1	0	--	--	0	--	1	1
Petroleum Coke	--	--	184	1	-32	--	8	--	1	144
Marketable	--	--	139	1	-32	--	8	--	1	99
Catalyst	--	--	45	--	--	--	--	--	--	45
Asphalt and Road Oil	--	--	196	15	-27	--	28	--	0	156
Still Gas	--	--	140	--	--	--	--	--	--	140
Miscellaneous Products	--	--	15	--	0	--	0	--	0	16
Total	2,854	1,065	4,606	3,011	-1,700	-25	-97	4,380	486	5,040

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,670	--	--	2,846	-560	-78	-32	3,843	68	0
Hydrocarbon Gas Liquids	1,110	-21	122	75	-499	--	28	103	241	415
Natural Gas Liquids	1,110	-21	80	68	-472	--	28	103	241	393
Ethane	412	--	--	--	-211	--	0	--	71	129
Propane	378	--	76	45	-313	--	14	--	5	168
Normal Butane	127	--	11	16	-120	--	13	18	4	-1
Isobutane	66	--	-8	6	21	--	0	59	0	26
Natural Gasoline	127	-21	--	0	151	--	1	25	161	70
Refinery Olefins	--	--	42	7	-27	--	0	--	--	22
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	40	4	-27	--	0	--	--	17
Normal Butylene	--	--	2	2	--	--	0	--	--	5
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,041	--	17	-460	-64	-11	456	109	-20
Hydrogen/Biofuels/Other Hydrocarbons	--	1,041	--	3	-623	-45	-1	293	32	51
Hydrogen	--	--	--	--	--	38	--	38	--	0
Biofuels (including Fuel Ethanol)	--	1,041	--	3	-623	-83	-1	255	32	51
Fuel Ethanol	--	949	--	--	-599	-83	0	242	25	0
Biofuels (excluding Fuel Ethanol) ⁶	--	92	--	3	-24	--	-1	13	7	51
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-21	--	0	-23	73	-71
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	14	184	-19	-10	185	4	0
Reformulated	--	0	--	--	40	22	-1	62	--	0
Conventional	--	0	--	14	144	-41	-10	123	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,500	43	31	102	-2	--	37	4,644
Finished Motor Gasoline	--	4	2,467	--	24	102	-1	--	12	2,587
Reformulated	--	--	331	--	--	-17	--	--	--	314
Conventional	--	4	2,136	--	24	119	-1	--	12	2,273
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	265	0	24	--	1	--	1	287
Kerosene	--	0	4	--	0	--	0	--	0	3
Distillate Fuel Oil	--	0	1,176	9	72	--	-5	--	5	1,257
15 ppm sulfur and under	--	0	1,176	9	68	--	-5	--	0	1,257
Greater than 15 ppm to 500 ppm sulfur	--	0	4	0	4	--	0	--	1	6
Greater than 500 ppm sulfur	--	0	-4	0	0	--	0	--	4	-7
Residual Fuel Oil	--	--	37	4	-28	--	0	--	0	13
Less than 0.31 percent sulfur	--	--	3	--	-3	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	0	-11	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	4	-14	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-2	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	17	3	-2	--	0	--	--	18
Other Oils for Petro. Feed. Use	--	--	12	2	0	--	0	--	--	13
Special Naphthas	--	--	-1	0	0	--	0	--	--	0
Lubricants	--	--	7	7	6	--	0	--	6	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	185	1	-32	--	2	--	10	142
Marketable	--	--	138	1	-32	--	2	--	10	95
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	173	16	-34	--	1	--	2	152
Still Gas	--	--	141	--	--	--	--	--	--	141
Miscellaneous Products	--	--	16	--	0	--	0	--	0	16
Total	2,779	1,025	4,621	2,981	-1,488	-40	-17	4,401	455	5,040

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	266,822	--	--	30,404	37,270	23,320	-25,754	266,294	117,276	0	617,040
Hydrocarbon Gas Liquids	109,547	-16	9,360	--	23,649	--	-4,156	14,235	56,260	76,201	152,464
Natural Gas Liquids	109,547	-16	4,077	--	23,299	--	-4,056	14,235	56,260	70,468	151,261
Ethane	49,012	--	174	--	16,337	--	3,558	--	8,483	53,482	47,696
Propane	32,668	--	4,722	--	7,129	--	294	--	36,470	7,755	48,024
Normal Butane	7,107	--	-478	--	3,047	--	-6,871	5,942	11,130	-525	31,669
Isobutane	9,875	--	-341	--	365	--	-91	4,225	104	5,661	8,797
Natural Gasoline	10,885	-16	--	--	-3,579	--	-946	4,068	73	4,095	15,075
Refinery Olefins	--	--	5,283	--	350	--	-100	--	--	5,733	1,203
Ethylene	--	--	4	--	--	--	0	--	--	4	0
Propylene	--	--	5,518	--	350	--	139	--	--	5,729	600
Normal Butylene	--	--	-239	--	--	--	-239	--	--	0	603
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	3,851	--	13,547	-56,085	-2,205	4,781	-59,560	6,988	6,900	129,214
Hydrogen/Biofuels/Other Hydrocarbons	--	3,851	--	181	4,256	4,340	1,118	8,647	725	2,138	5,870
Hydrogen	--	--	--	--	--	4,043	--	4,043	--	0	--
Biofuels (including Fuel Ethanol)	--	3,851	--	181	4,256	297	1,118	4,604	725	2,138	5,870
Fuel Ethanol	--	725	--	--	4,556	297	517	4,408	652	0	4,075
Biofuels (excluding Fuel Ethanol) ⁷	--	3,127	--	181	-300	--	601	196	72	2,138	1,795
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	13,128	983	--	-122	4,960	4,491	4,782	45,960
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	238	-61,324	-6,544	3,774	-73,176	1,772	0	77,345
Reformulated	--	--	--	--	-8,911	3,988	88	-5,013	2	0	10,016
Conventional	--	--	--	238	-52,413	-10,532	3,686	-68,163	1,770	0	67,329
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	11	9	--	-20	39
Finished Petroleum Products	--	1	229,004	4,533	-46,872	6,248	4,392	--	82,252	106,269	105,997
Finished Motor Gasoline	--	0	68,129	--	-1,672	6,248	1,029	--	28,146	43,530	7,491
Reformulated	--	--	13,704	--	--	-3,131	--	--	--	10,573	--
Conventional	--	0	54,425	--	-1,672	9,379	1,029	--	28,146	32,957	7,491
Finished Aviation Gasoline	--	--	289	18	-93	--	-51	--	--	265	450
Kerosene-Type Jet Fuel	--	--	25,357	1	-16,180	--	532	--	3,696	4,950	11,812
Kerosene	--	--	403	--	-37	--	135	--	220	11	591
Distillate Fuel Oil	--	1	93,602	--	-30,293	--	3,353	--	32,784	27,172	45,813
15 ppm sulfur and under	--	1	87,654	--	-29,465	--	3,219	--	27,526	27,444	38,786
Greater than 15 ppm to 500 ppm sulfur	--	0	2,673	--	-105	--	199	--	2,367	2	1,360
Greater than 500 ppm sulfur	--	--	3,275	--	-723	--	-65	--	2,891	-274	5,667
Residual Fuel Oil	--	--	1,933	3,670	1,179	--	-891	--	2,910	4,763	17,740
Less than 0.31 percent sulfur	--	--	1,052	--	236	--	36	--	NA	NA	964
0.31 to 1.00 percent sulfur	--	--	1,445	--	234	--	-115	--	NA	NA	4,244
Greater than 1.00 percent sulfur	--	--	-564	3,670	709	--	-812	--	NA	NA	12,532
Petrochemical Feedstocks	--	--	5,911	67	129	--	202	--	--	5,905	2,053
Naphtha for Petro. Feed. Use	--	--	3,546	36	109	--	91	--	--	3,600	1,436
Other Oils for Petro. Feed. Use	--	--	2,365	31	20	--	111	--	--	2,305	617
Special Naphthas	--	--	897	124	-33	--	18	--	--	970	822
Lubricants	--	--	3,615	626	-485	--	-2	--	1,619	2,139	8,987
Waxes	--	--	122	27	--	--	25	--	17	107	339
Petroleum Coke	--	--	14,302	--	755	--	123	--	12,485	2,449	3,414
Marketable	--	--	11,405	--	755	--	123	--	12,485	-448	3,414
Catalyst	--	--	2,897	--	--	--	--	--	--	2,897	--
Asphalt and Road Oil	--	--	1,880	--	-137	--	-112	--	335	1,521	5,792
Still Gas	--	--	10,892	--	--	--	--	--	--	10,892	--
Miscellaneous Products	--	--	1,672	--	-6	--	31	--	40	1,595	693
Total	376,369	3,835	238,364	48,484	-42,039	27,363	-20,738	220,969	262,776	189,370	1,004,715

-- = Not Applicable.

NA = No Data Reported.

1 = Not Available.

1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

5 Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

6 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

7 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	2,833,472	--	--	426,038	343,872	253,840	-201,695	2,904,032	1,154,884	0	617,040
Hydrocarbon Gas Liquids	1,190,434	-159	144,961	99	300,016	--	29,859	123,760	610,688	871,044	152,464
Natural Gas Liquids	1,190,434	-159	78,131	48	294,450	--	29,799	123,760	610,688	798,657	151,261
Ethane	522,570	--	2,091	--	187,220	--	-6,571	--	100,884	617,568	47,696
Propane	357,603	--	52,129	16	88,045	--	17,890	--	400,676	79,227	48,024
Normal Butane	81,758	--	26,199	30	39,789	--	10,926	32,807	106,201	-2,158	31,669
Isobutane	105,020	--	-2,288	--	6,459	--	2,383	46,046	1,634	59,128	8,797
Natural Gasoline	123,483	-159	--	2	-27,063	--	5,171	44,907	1,293	44,893	15,075
Refinery Olefins	--	--	66,830	51	5,566	--	60	--	--	72,387	1,203
Ethylene	--	--	94	--	--	--	0	--	--	94	--
Propylene	--	--	69,845	--	5,566	--	-179	--	--	75,590	600
Normal Butylene	--	--	-2,858	51	--	--	255	--	--	-3,062	603
Isobutylene	--	--	-251	--	--	--	-16	--	--	-235	0
Other Liquids	--	35,068	--	157,978	-624,838	-5,596	6,967	-620,585	108,914	67,315	129,214
Hydrogen/Biofuels/Other Hydrocarbons	--	35,068	--	1,012	52,001	47,802	324	95,890	19,270	20,398	5,870
Hydrogen	--	--	--	--	--	42,933	--	42,933	--	0	--
Biofuels (including Fuel Ethanol)	--	35,068	--	936	52,001	4,945	324	52,957	19,270	20,398	5,870
Fuel Ethanol	--	7,725	--	--	54,729	4,945	198	49,204	17,996	0	4,075
Biofuels (excluding Fuel Ethanol) ⁷	--	27,343	--	936	-2,728	--	126	3,753	1,274	20,398	1,795
Other Hydrocarbons	--	--	--	76	--	-76	--	--	--	0	--
Unfinished Oils	--	--	--	140,980	6,693	--	4,254	25,129	71,522	46,768	45,960
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	15,986	-683,532	-53,398	2,375	-741,440	18,121	0	77,345
Reformulated	--	--	--	417	-124,225	35,671	523	-88,671	11	0	10,016
Conventional	--	--	--	15,569	-559,307	-89,069	1,852	-652,769	18,110	0	67,329
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	14	-164	--	150	39
Finished Petroleum Products	--	66	2,454,103	68,827	-498,760	48,453	10,892	--	918,743	1,143,055	105,997
Finished Motor Gasoline	--	0	725,616	179	-30,508	48,453	722	--	279,277	463,741	7,491
Reformulated	--	--	152,077	--	--	-28,775	--	--	--	123,302	--
Conventional	--	0	573,539	179	-30,508	77,228	722	--	279,277	340,440	7,491
Finished Aviation Gasoline	--	--	3,045	98	-1,096	--	-57	--	--	2,104	450
Kerosene-Type Jet Fuel	--	--	277,216	1	-172,078	--	750	--	52,784	51,605	11,812
Kerosene	--	--	1,282	--	-272	--	277	--	2,162	-1,429	591
Distillate Fuel Oil	--	66	984,085	271	-305,188	--	6,578	--	385,541	287,115	45,813
15 ppm sulfur and under	--	67	920,556	136	-294,828	--	4,237	--	331,095	290,599	38,786
Greater than 15 ppm to 500 ppm sulfur	--	0	26,257	25	-1,368	--	276	--	26,431	-1,793	1,360
Greater than 500 ppm sulfur	--	--	37,272	110	-8,992	--	2,065	--	28,015	-1,690	5,667
Residual Fuel Oil	--	--	25,679	46,126	8,978	--	2,411	--	26,743	51,629	17,740
Less than 0.31 percent sulfur	--	--	10,485	880	790	--	-107	--	NA	NA	964
0.31 to 1.00 percent sulfur	--	--	14,135	2,021	3,662	--	-140	--	NA	NA	4,244
Greater than 1.00 percent sulfur	--	--	1,059	43,225	4,526	--	2,658	--	NA	NA	12,532
Petrochemical Feedstocks	--	--	65,340	2,408	823	--	47	--	--	68,524	2,053
Naphtha for Petro. Feed. Use	--	--	36,835	2,036	700	--	-32	--	--	39,603	1,436
Other Oils for Petro. Feed. Use	--	--	28,505	372	123	--	79	--	--	28,921	617
Special Naphthas	--	--	11,150	4,190	-124	--	-28	--	--	15,244	822
Lubricants	--	--	42,605	12,178	-7,262	--	-682	--	24,855	23,348	8,987
Waxes	--	--	1,551	377	--	--	65	--	240	1,623	339
Petroleum Coke	--	--	152,166	2,940	9,305	--	-432	--	143,580	21,263	3,414
Marketable	--	--	118,195	2,940	9,305	--	-432	--	143,580	-12,708	3,414
Catalyst	--	--	33,971	--	--	--	--	--	--	33,971	--
Asphalt and Road Oil	--	--	26,801	59	-1,263	--	874	--	3,176	21,548	5,792
Still Gas	--	--	119,415	--	--	--	--	--	--	119,415	--
Miscellaneous Products	--	--	18,152	--	-75	--	367	--	385	17,325	693
Total	4,023,906	34,975	2,599,064	652,942	-479,710	296,697	-153,977	2,407,207	2,793,230	2,081,415	1,004,715

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,894	--	--	1,013	1,242	777	-858	8,876	3,909	0
Hydrocarbon Gas Liquids	3,652	-1	312	--	788	--	-139	475	1,875	2,540
Natural Gas Liquids	3,652	-1	136	--	777	--	-135	475	1,875	2,349
Ethane	1,634	--	6	--	545	--	119	--	283	1,783
Propane	1,089	--	157	--	238	--	10	--	1,216	259
Normal Butane	237	--	-16	--	102	--	-229	198	371	-18
Isobutane	329	--	-11	--	12	--	-3	141	3	189
Natural Gasoline	363	-1	--	--	-119	--	-32	136	2	136
Refinery Olefins	--	--	176	--	12	--	-3	--	--	191
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	184	--	12	--	5	--	--	191
Normal Butylene	--	--	-8	--	--	--	-8	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	128	--	452	-1,870	-73	159	-1,985	233	230
Hydrogen/Biofuels/Other Hydrocarbons	--	128	--	6	142	145	37	288	24	71
Hydrogen	--	--	--	--	--	135	--	135	--	0
Biofuels (including Fuel Ethanol)	--	128	--	6	142	10	37	153	24	71
Fuel Ethanol	--	24	--	--	152	10	17	147	22	0
Biofuels (excluding Fuel Ethanol) ⁷	--	104	--	6	-10	--	20	7	2	71
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	438	33	--	-4	165	150	159
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	8	-2,044	-218	126	-2,439	59	0
Reformulated	--	--	--	--	-297	133	3	-167	0	0
Conventional	--	--	--	8	-1,747	-351	123	-2,272	59	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	-1
Finished Petroleum Products	--	0	7,633	151	-1,562	208	146	--	2,742	3,542
Finished Motor Gasoline	--	0	2,271	--	-56	208	34	--	938	1,451
Reformulated	--	--	457	--	--	-104	--	--	--	352
Conventional	--	0	1,814	--	-56	313	34	--	938	1,099
Finished Aviation Gasoline	--	--	10	1	-3	--	-2	--	--	9
Kerosene-Type Jet Fuel	--	--	845	0	-539	--	18	--	123	165
Kerosene	--	--	13	--	-1	--	5	--	7	0
Distillate Fuel Oil	--	0	3,120	--	-1,010	--	112	--	1,093	906
15 ppm sulfur and under	--	0	2,922	--	-982	--	107	--	918	915
Greater than 15 ppm to 500 ppm sulfur	--	0	89	--	-4	--	7	--	79	0
Greater than 500 ppm sulfur	--	--	109	--	-24	--	-2	--	96	-9
Residual Fuel Oil	--	--	64	122	39	--	-30	--	97	159
Less than 0.31 percent sulfur	--	--	35	--	8	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	48	--	8	--	-4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	-19	122	24	--	-27	--	NA	NA
Petrochemical Feedstocks	--	--	197	2	4	--	7	--	--	197
Naphtha for Petro. Feed. Use	--	--	118	1	4	--	3	--	--	120
Other Oils for Petro. Feed. Use	--	--	79	1	1	--	4	--	--	77
Special Naphthas	--	--	30	4	-1	--	1	--	--	32
Lubricants	--	--	121	21	-16	--	0	--	54	71
Waxes	--	--	4	1	--	--	1	--	1	4
Petroleum Coke	--	--	477	--	25	--	4	--	416	82
Marketable	--	--	380	--	25	--	4	--	416	-15
Catalyst	--	--	97	--	--	--	--	--	--	97
Asphalt and Road Oil	--	--	63	--	-5	--	-4	--	11	51
Still Gas	--	--	363	--	--	--	--	--	--	363
Miscellaneous Products	--	--	56	--	0	--	1	--	1	53
Total	12,546	128	7,945	1,616	-1,401	912	-691	7,366	8,759	6,312

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,483	--	--	1,276	1,030	760	-604	8,695	3,458	0
Hydrocarbon Gas Liquids	3,564	0	434	0	898	--	89	371	1,828	2,608
Natural Gas Liquids	3,564	0	234	0	882	--	89	371	1,828	2,391
Ethane	1,565	--	6	--	561	--	-20	--	302	1,849
Propane	1,071	--	156	0	264	--	54	--	1,200	237
Normal Butane	245	--	78	0	119	--	33	98	318	-6
Isobutane	314	--	-7	--	19	--	7	138	5	177
Natural Gasoline	370	0	--	0	-81	--	15	134	4	134
Refinery Olefins	--	--	200	0	17	--	0	--	--	217
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	209	--	17	--	-1	--	--	226
Normal Butylene	--	--	-9	0	--	--	1	--	--	-9
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	105	--	473	-1,871	-17	21	-1,858	326	202
Hydrogen/Biofuels/Other Hydrocarbons	--	105	--	3	156	143	1	287	58	61
Hydrogen	--	--	--	--	--	129	--	129	--	0
Biofuels (including Fuel Ethanol)	--	105	--	3	156	15	1	159	58	61
Fuel Ethanol	--	23	--	--	164	15	1	147	54	0
Biofuels (excluding Fuel Ethanol) ⁷	--	82	--	3	-8	--	0	11	4	61
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	422	20	--	13	75	214	140
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	48	-2,047	-160	7	-2,220	54	0
Reformulated	--	--	--	1	-372	107	2	-265	0	0
Conventional	--	--	--	47	-1,675	-267	6	-1,954	54	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	0	7,348	206	-1,493	145	33	--	2,751	3,422
Finished Motor Gasoline	--	0	2,173	1	-91	145	2	--	836	1,388
Reformulated	--	--	455	--	--	-86	--	--	--	369
Conventional	--	0	1,717	1	-91	231	2	--	836	1,019
Finished Aviation Gasoline	--	--	9	0	-3	--	0	--	--	6
Kerosene-Type Jet Fuel	--	--	830	0	-515	--	2	--	158	155
Kerosene	--	--	4	--	-1	--	1	--	6	-4
Distillate Fuel Oil	--	0	2,946	1	-914	--	20	--	1,154	860
15 ppm sulfur and under	--	0	2,756	0	-883	--	13	--	991	870
Greater than 15 ppm to 500 ppm sulfur	--	0	79	0	-4	--	1	--	79	-5
Greater than 500 ppm sulfur	--	--	112	0	-27	--	6	--	84	-5
Residual Fuel Oil	--	--	77	138	27	--	7	--	80	155
Less than 0.31 percent sulfur	--	--	31	3	2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	42	6	11	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	3	129	14	--	8	--	NA	NA
Petrochemical Feedstocks	--	--	196	7	2	--	0	--	--	205
Naphtha for Petro. Feed. Use	--	--	110	6	2	--	0	--	--	119
Other Oils for Petro. Feed. Use	--	--	85	1	0	--	0	--	--	87
Special Naphthas	--	--	33	13	0	--	0	--	--	46
Lubricants	--	--	128	36	-22	--	-2	--	74	70
Waxes	--	--	5	1	--	--	0	--	1	5
Petroleum Coke	--	--	456	9	28	--	-1	--	430	64
Marketable	--	--	354	9	28	--	-1	--	430	-38
Catalyst	--	--	102	--	--	--	--	--	--	102
Asphalt and Road Oil	--	--	80	0	-4	--	3	--	10	65
Still Gas	--	--	358	--	--	--	--	--	--	358
Miscellaneous Products	--	--	54	--	0	--	1	--	1	52
Total	12,048	105	7,782	1,955	-1,436	888	-461	7,207	8,363	6,232

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	27,423	--	--	11,791	-19,525	-855	1,403	17,432	0	0	24,847
Hydrocarbon Gas Liquids	15,701	-10	94	471	-14,996	--	-650	610	9	1,290	7,078
Natural Gas Liquids	15,701	-10	24	471	-14,996	--	-676	610	9	1,246	6,980
Ethane	4,513	--	--	--	-4,963	--	-113	--	--	-337	1,073
Propane	5,748	--	192	442	-5,000	--	-152	--	0	1,534	2,791
Normal Butane	2,243	--	-149	29	-2,113	--	-435	327	2	116	1,875
Isobutane	999	--	-19	--	-1,095	--	0	134	--	-249	438
Natural Gasoline	2,198	-10	--	--	-1,825	--	24	149	7	182	803
Refinery Olefins	--	--	70	--	--	--	26	--	--	44	98
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	47	--	--	--	0	--	--	47	7
Normal Butylene	--	--	23	--	--	--	26	--	--	-3	91
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	782	--	20	593	266	209	1,023	1	428	9,321
Hydrogen/Biofuels/Other Hydrocarbons	--	782	--	7	392	224	-26	1,114	--	318	525
Hydrogen	--	--	--	--	--	155	--	155	--	0	--
Biofuels (including Fuel Ethanol)	--	782	--	7	392	69	-26	959	--	318	525
Fuel Ethanol	--	435	--	--	361	69	-23	888	--	0	343
Biofuels (excluding Fuel Ethanol) ⁶	--	347	--	7	31	--	-4	71	--	318	182
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	5	--	--	6	-111	0	110	2,746
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	8	201	41	229	20	1	0	6,050
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	8	201	41	229	20	1	0	6,050
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-1	19,713	143	-225	-111	519	--	16	18,984	7,655
Finished Motor Gasoline	--	--	10,229	--	-360	-111	-21	--	1	9,778	1,161
Reformulated	--	--	--	--	--	--	0	--	--	0	--
Conventional	--	--	10,229	--	-360	-111	-21	--	1	9,778	1,160
Finished Aviation Gasoline	--	--	6	--	--	--	3	--	--	3	9
Kerosene-Type Jet Fuel	--	--	974	--	368	--	116	--	--	1,226	880
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	-1	5,745	48	107	--	111	--	1	5,787	3,642
15 ppm sulfur and under	--	-1	5,739	48	107	--	141	--	--	5,752	3,470
Greater than 15 ppm to 500 ppm sulfur	--	--	42	--	--	--	5	--	1	36	127
Greater than 500 ppm sulfur	--	--	-36	--	--	--	-35	--	--	-1	45
Residual Fuel Oil	--	--	319	--	--	--	5	--	--	314	194
Less than 0.31 percent sulfur	--	--	154	--	--	--	1	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	28	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	137	--	--	--	4	--	NA	NA	161
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	12	-12	--
Waxes	--	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	573	--	27	--	13	--	--	587	76
Marketable	--	--	352	--	27	--	13	--	--	366	76
Catalyst	--	--	221	--	--	--	--	--	--	221	--
Asphalt and Road Oil	--	--	1,159	94	-367	--	286	--	1	599	1,669
Still Gas	--	--	597	--	--	--	--	--	--	597	--
Miscellaneous Products	--	--	111	1	--	--	6	--	--	106	23
Total	43,124	771	19,807	12,425	-34,152	-700	1,481	19,065	27	20,703	48,901

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	289,165	--	--	129,915	-214,721	-9,577	521	194,260	0	0	24,847
Hydrocarbon Gas Liquids	180,458	-111	3,917	4,043	-167,180	--	-100	5,627	396	15,204	7,078
Natural Gas Liquids	180,458	-111	2,611	4,043	-167,180	--	-122	5,627	396	13,920	6,980
Ethane	57,446	--	--	--	-59,434	--	-226	--	1	-1,763	1,073
Propane	62,387	--	2,321	3,794	-54,426	--	-42	--	9	14,109	2,791
Normal Butane	24,595	--	336	226	-21,591	--	56	2,075	26	1,409	1,875
Isobutane	11,020	--	-46	22	-11,151	--	0	1,818	--	-1,973	438
Natural Gasoline	25,010	-111	--	1	-20,578	--	90	1,734	359	2,138	803
Refinery Olefins	--	--	1,306	--	--	--	22	--	--	1,284	98
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	417	--	--	--	4	--	--	413	7
Normal Butylene	--	--	889	--	--	--	18	--	--	871	91
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	7,842	--	797	10,601	2,704	-434	18,068	139	4,172	9,321
Hydrogen/Biofuels/Other Hydrocarbons	--	7,842	--	102	4,083	3,671	105	13,030	121	2,442	525
Hydrogen	--	--	--	--	--	2,294	--	2,294	--	0	--
Biofuels (including Fuel Ethanol)	--	7,842	--	102	4,083	1,377	105	10,736	121	2,442	525
Fuel Ethanol	--	4,762	--	7	3,802	1,377	-36	9,983	2	0	343
Biofuels (excluding Fuel Ethanol) ⁶	--	3,080	--	95	281	--	141	753	119	2,442	182
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	163	--	--	-24	-1,545	2	1,730	2,746
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	532	6,518	-967	-515	6,583	15	0	6,050
Reformulated	--	--	--	--	40	-40	--	--	--	--	--
Conventional	--	--	--	532	6,478	-927	-515	6,583	15	0	6,050
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-5	223,066	2,789	-2,089	-410	-1,080	--	169	224,261	7,655
Finished Motor Gasoline	--	--	115,412	20	-3,779	-410	-421	--	9	111,655	1,161
Reformulated	--	--	--	--	--	44	1	--	--	43	--
Conventional	--	--	115,412	20	-3,779	-454	-422	--	9	111,612	1,160
Finished Aviation Gasoline	--	--	46	5	--	--	0	--	--	51	9
Kerosene-Type Jet Fuel	--	--	11,470	311	7,107	--	188	--	1	18,699	880
Kerosene	--	--	2	--	--	--	0	--	--	2	1
Distillate Fuel Oil	--	-5	66,059	1,596	1,162	--	-884	--	1	69,694	3,642
15 ppm sulfur and under	--	-5	65,407	1,593	1,162	--	-827	--	0	68,984	3,470
Greater than 15 ppm to 500 ppm sulfur	--	--	673	--	--	--	-36	--	1	708	127
Greater than 500 ppm sulfur	--	--	-21	3	--	--	-21	--	--	3	45
Residual Fuel Oil	--	--	3,586	--	--	--	-18	--	--	3,604	194
Less than 0.31 percent sulfur	--	--	1,844	--	--	--	7	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	404	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,338	--	--	--	-25	--	NA	NA	161
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	136	-136	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	6,777	--	-1,724	--	-61	--	0	5,113	76
Marketable	--	--	4,470	--	-1,724	--	-61	--	0	2,806	76
Catalyst	--	--	2,307	--	--	--	--	--	--	2,307	--
Asphalt and Road Oil	--	--	11,280	846	-4,855	--	110	--	21	7,140	1,669
Still Gas	--	--	7,083	--	--	--	--	--	--	7,083	--
Miscellaneous Products	--	--	1,351	11	--	--	6	--	0	1,356	23
Total	469,623	7,726	226,983	137,544	-373,389	-7,283	-1,093	217,955	704	243,637	48,901

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	914	--	--	393	-651	-28	47	581	0	0
Hydrocarbon Gas Liquids	523	0	3	16	-500	--	-22	20	0	43
Natural Gas Liquids	523	0	1	16	-500	--	-23	20	0	42
Ethane	150	--	--	--	-165	--	-4	--	--	-11
Propane	192	--	6	15	-167	--	-5	--	0	51
Normal Butane	75	--	-5	1	-70	--	-15	11	0	4
Isobutane	33	--	-1	--	-37	--	0	4	--	-8
Natural Gasoline	73	0	--	--	-61	--	1	5	0	6
Refinery Olefins	--	--	2	--	--	--	1	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2	--	--	--	0	--	--	2
Normal Butylene	--	--	1	--	--	--	1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	1	20	9	7	34	0	14
Hydrogen/Biofuels/Other Hydrocarbons	--	26	--	0	13	7	-1	37	--	11
Hydrogen	--	--	--	--	--	5	--	5	--	0
Biofuels (including Fuel Ethanol)	--	26	--	0	13	2	-1	32	--	11
Fuel Ethanol	--	14	--	--	12	2	-1	30	--	0
Biofuels (excluding Fuel Ethanol) ⁶	--	12	--	0	1	--	0	2	--	11
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	0	-4	0	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	7	1	8	1	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	0	7	1	8	1	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	657	5	-8	-4	17	--	1	633
Finished Motor Gasoline	--	--	341	--	-12	-4	-1	--	0	326
Reformulated	--	--	--	--	--	--	0	--	--	0
Conventional	--	--	341	--	-12	-4	-1	--	0	326
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	--	12	--	4	--	--	41
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	192	2	4	--	4	--	0	193
15 ppm sulfur and under	--	0	191	2	4	--	5	--	--	192
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	0	1
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	--	10
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	19	--	1	--	0	--	--	20
Marketable	--	--	12	--	1	--	0	--	--	12
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	39	3	-12	--	10	--	0	20
Still Gas	--	--	20	--	--	--	--	--	--	20
Miscellaneous Products	--	--	4	0	--	--	0	--	--	4
Total	1,437	26	660	414	-1,138	-23	49	636	1	690

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	866	--	--	389	-643	-29	2	582	0	0
Hydrocarbon Gas Liquids	540	0	12	12	-501	--	0	17	1	46
Natural Gas Liquids	540	0	8	12	-501	--	0	17	1	42
Ethane	172	--	--	--	-178	--	-1	--	0	-5
Propane	187	--	7	11	-163	--	0	--	0	42
Normal Butane	74	--	1	1	-65	--	0	6	0	4
Isobutane	33	--	0	0	-33	--	0	5	--	-6
Natural Gasoline	75	0	--	0	-62	--	0	5	1	6
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	3	--	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	23	--	2	32	8	-1	54	0	12
Hydrogen/Biofuels/Other Hydrocarbons	--	23	--	0	12	11	0	39	0	7
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	23	--	0	12	4	0	32	0	7
Fuel Ethanol	--	14	--	0	11	4	0	30	0	0
Biofuels (excluding Fuel Ethanol) ⁶	--	9	--	0	1	--	0	2	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	0	-5	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	20	-3	-2	20	0	0
Reformulated	--	--	--	--	0	0	--	--	--	--
Conventional	--	--	--	2	19	-3	-2	20	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	668	8	-6	-1	-3	--	1	671
Finished Motor Gasoline	--	--	346	0	-11	-1	-1	--	0	334
Reformulated	--	--	--	--	--	0	0	--	--	0
Conventional	--	--	346	0	-11	-1	-1	--	0	334
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	1	21	--	1	--	0	56
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	198	5	3	--	-3	--	0	209
15 ppm sulfur and under	--	0	196	5	3	--	-2	--	0	207
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	0	2
Greater than 500 ppm sulfur	--	--	0	0	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	--	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	20	--	-5	--	0	--	0	15
Marketable	--	--	13	--	-5	--	0	--	0	8
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	34	3	-15	--	0	--	0	21
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,406	23	680	412	-1,118	-22	-3	653	2	729

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	23,415	--	--	40,374	3,564	-916	-871	67,308	--	0	48,722
Hydrocarbon Gas Liquids	2,104	-5	-254	1,513	1,707	--	-594	3,013	1,518	1,128	5,309
Natural Gas Liquids	2,104	-5	-401	1,513	1,707	--	-549	3,013	1,518	936	5,282
Ethane	--	--	--	--	--	--	--	--	--	--	--
Propane	229	--	922	890	455	--	-320	--	1,086	1,730	2,127
Normal Butane	613	--	-1,398	621	1,111	--	-230	1,231	402	-456	2,760
Isobutane	195	--	75	2	141	--	17	773	4	-381	370
Natural Gasoline	1,067	-5	--	--	--	--	-16	1,009	26	43	25
Refinery Olefins	--	--	147	--	--	--	-45	--	--	192	27
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	169	--	--	--	5	--	--	164	11
Normal Butylene	--	--	-22	--	--	--	-50	--	--	28	16
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	1,155	--	3,092	10,257	70	4,489	7,107	559	2,419	52,644
Hydrogen/Biofuels/Other Hydrocarbons	--	1,155	--	1,018	5,548	1,069	561	6,628	331	1,271	5,206
Hydrogen	--	--	--	--	--	1,426	--	1,426	--	0	--
Biofuels (including Fuel Ethanol)	--	1,155	--	1,018	5,548	-357	561	5,202	331	1,271	5,206
Fuel Ethanol	--	212	--	249	4,580	-357	41	4,374	269	0	2,682
Biofuels (excluding Fuel Ethanol) ⁶	--	943	--	769	968	--	520	828	61	1,271	2,524
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,527	--	--	-182	533	27	1,149	18,126
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	547	4,709	-999	4,110	-54	201	0	29,311
Reformulated	--	0	--	--	1,971	211	1,892	288	2	0	14,595
Conventional	--	--	--	547	2,738	-1,210	2,218	-342	199	0	14,716
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	51	82,608	3,989	2,062	1,356	537	--	8,636	80,893	32,517
Finished Motor Gasoline	--	50	42,355	521	86	1,356	-323	--	1,088	43,602	1,914
Reformulated	--	--	29,583	--	--	-137	-5	--	--	29,451	17
Conventional	--	50	12,772	521	86	1,493	-318	--	1,088	14,151	1,897
Finished Aviation Gasoline	--	--	35	1	--	--	18	--	--	18	302
Kerosene-Type Jet Fuel	--	4	12,552	2,577	550	--	-251	--	932	15,002	8,836
Kerosene	--	--	1	--	--	--	-1	--	--	2	3
Distillate Fuel Oil	--	-2	16,552	440	1,153	--	708	--	2,065	15,370	12,746
15 ppm sulfur and under	--	-2	15,674	440	1,153	--	604	--	1,917	14,744	11,824
Greater than 15 ppm to 500 ppm sulfur	--	--	284	--	--	--	11	--	52	221	296
Greater than 500 ppm sulfur	--	--	594	--	--	--	93	--	96	405	626
Residual Fuel Oil	--	--	1,995	229	--	--	64	--	1,143	1,017	4,468
Less than 0.31 percent sulfur	--	--	48	--	--	--	-96	--	NA	NA	562
0.31 to 1.00 percent sulfur	--	--	671	78	--	--	20	--	NA	NA	826
Greater than 1.00 percent sulfur	--	--	1,276	151	--	--	140	--	NA	NA	3,080
Petrochemical Feedstocks	--	--	--	69	--	--	--	--	--	69	--
Naphtha for Petro. Feed. Use	--	--	--	69	--	--	--	--	--	69	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	25	--	--	--	-1	--	--	26	25
Lubricants	--	--	473	3	--	--	57	--	275	144	840
Waxes	--	--	--	11	--	--	--	--	5	6	--
Petroleum Coke	--	--	3,858	--	-87	--	6	--	3,102	663	1,297
Marketable	--	--	2,957	--	-87	--	6	--	3,102	-238	1,297
Catalyst	--	--	901	--	--	--	--	--	--	901	--
Asphalt and Road Oil	--	--	784	138	360	--	258	--	23	1,001	2,011
Still Gas	--	--	3,565	--	--	--	--	--	--	3,565	--
Miscellaneous Products	--	--	413	--	--	--	2	--	3	408	75
Total	25,519	1,201	82,354	48,968	17,590	510	3,561	77,428	10,712	84,440	139,192

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	260,755	--	--	400,321	27,998	22,349	1,974	707,901	1,548	0	48,722
Hydrocarbon Gas Liquids	23,334	-61	15,625	15,013	10,895	--	1,713	25,797	17,176	20,120	5,309
Natural Gas Liquids	23,334	-61	14,092	15,013	10,895	--	1,736	25,797	17,176	18,564	5,282
Ethane	7	--	--	--	--	--	0	--	7	0	--
Propane	2,664	--	10,652	8,753	4,411	--	457	--	8,571	17,452	2,127
Normal Butane	6,342	--	2,708	6,144	4,959	--	1,247	8,120	8,327	2,459	2,760
Isobutane	3,006	--	732	116	1,525	--	36	7,239	23	-1,919	370
Natural Gasoline	11,315	-61	--	--	--	--	-4	10,438	248	572	25
Refinery Olefins	--	--	1,533	--	--	--	-23	--	--	1,556	27
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,783	--	--	--	-5	--	--	1,788	11
Normal Butylene	--	--	-250	--	--	--	-18	--	--	-232	16
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	11,116	--	39,933	104,832	-44	1,143	127,746	8,264	18,683	52,644
Hydrogen/Biofuels/Other Hydrocarbons	--	11,117	--	7,680	54,828	17,452	214	72,686	5,196	12,980	5,206
Hydrogen	--	--	--	--	--	15,090	--	15,090	--	0	--
Biofuels (including Fuel Ethanol)	--	11,117	--	7,680	54,828	2,362	214	57,596	5,196	12,980	5,206
Fuel Ethanol	--	2,385	--	1,194	46,129	2,362	325	49,207	2,539	0	2,682
Biofuels (excluding Fuel Ethanol) ⁶	--	8,731	--	6,486	8,699	--	-111	8,389	2,657	12,980	2,524
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	20,482	276	--	-807	14,544	1,318	5,703	18,126
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	11,771	49,728	-17,496	1,736	40,516	1,750	0	29,311
Reformulated	--	0	--	1,615	20,911	2,580	764	24,325	16	0	14,595
Conventional	--	--	--	10,156	28,817	-20,076	972	16,191	1,734	0	14,716
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	670	901,462	50,367	22,387	15,134	651	--	80,398	908,971	32,517
Finished Motor Gasoline	--	603	480,837	8,213	971	15,134	-160	--	9,060	496,858	1,914
Reformulated	--	--	335,768	--	--	312	1	--	--	336,079	17
Conventional	--	603	145,069	8,213	971	14,822	-161	--	9,060	160,778	1,897
Finished Aviation Gasoline	--	--	336	22	--	--	-14	--	--	372	302
Kerosene-Type Jet Fuel	--	83	134,116	29,378	2,991	--	770	--	6,718	159,080	8,836
Kerosene	--	--	71	18	--	--	-32	--	207	-86	3
Distillate Fuel Oil	--	-17	161,302	7,772	13,698	--	334	--	21,508	160,914	12,746
15 ppm sulfur and under	--	-17	152,641	6,321	13,698	--	215	--	16,906	155,522	11,824
Greater than 15 ppm to 500 ppm sulfur	--	--	3,406	1,260	--	--	29	--	1,647	2,990	296
Greater than 500 ppm sulfur	--	--	5,255	191	--	--	90	--	2,954	2,402	626
Residual Fuel Oil	--	--	27,009	3,216	--	--	118	--	5,895	24,212	4,468
Less than 0.31 percent sulfur	--	--	507	--	--	--	-527	--	NA	NA	562
0.31 to 1.00 percent sulfur	--	--	7,193	1,823	--	--	391	--	NA	NA	826
Greater than 1.00 percent sulfur	--	--	19,309	1,393	--	--	254	--	NA	NA	3,080
Petrochemical Feedstocks	--	--	--	349	--	--	-2	--	--	351	--
Naphtha for Petro. Feed. Use	--	--	--	349	--	--	-2	--	--	351	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	327	--	--	--	7	--	--	320	25
Lubricants	--	--	3,804	292	-212	--	-109	--	2,553	1,440	840
Waxes	--	--	--	356	--	--	--	--	47	309	--
Petroleum Coke	--	--	41,892	--	-387	--	-38	--	34,097	7,447	1,297
Marketable	--	--	32,125	--	-387	--	-38	--	34,097	-2,320	1,297
Catalyst	--	--	9,767	--	--	--	--	--	--	9,767	--
Asphalt and Road Oil	--	--	8,897	751	5,326	--	-211	--	307	14,878	2,011
Still Gas	--	--	38,682	--	--	--	--	--	--	38,682	--
Miscellaneous Products	--	--	4,189	--	--	--	-12	--	6	4,195	75
Total	284,089	11,725	917,087	505,634	166,112	37,439	5,481	861,444	107,387	947,774	139,192

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	780	--	--	1,346	119	-31	-29	2,244	--	0
Hydrocarbon Gas Liquids	70	0	-8	50	57	--	-20	100	51	38
Natural Gas Liquids	70	0	-13	50	57	--	-18	100	51	31
Ethane	--	--	--	--	--	--	--	--	--	--
Propane	8	--	31	30	15	--	-11	--	36	58
Normal Butane	20	--	-47	21	37	--	-8	41	13	-15
Isobutane	7	--	3	0	5	--	1	26	0	-13
Natural Gasoline	36	0	--	--	--	--	-1	34	1	1
Refinery Olefins	--	--	5	--	--	--	-2	--	--	6
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	5
Normal Butylene	--	--	-1	--	--	--	-2	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	39	--	103	342	2	150	237	19	81
Hydrogen/Biofuels/Other Hydrocarbons	--	39	--	34	185	36	19	221	11	42
Hydrogen	--	--	--	--	--	48	--	48	--	0
Biofuels (including Fuel Ethanol)	--	39	--	34	185	-12	19	173	11	42
Fuel Ethanol	--	7	--	8	153	-12	1	146	9	0
Biofuels (excluding Fuel Ethanol) ⁶	--	31	--	26	32	--	17	28	2	42
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	51	--	--	-6	18	1	38
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	18	157	-33	137	-2	7	0
Reformulated	--	0	--	--	66	7	63	10	0	0
Conventional	--	--	--	18	91	-40	74	-11	7	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,754	133	69	45	18	--	288	2,696
Finished Motor Gasoline	--	2	1,412	17	3	45	-11	--	36	1,453
Reformulated	--	--	986	--	--	-5	0	--	--	982
Conventional	--	2	426	17	3	50	-11	--	36	472
Finished Aviation Gasoline	--	--	1	0	--	--	1	--	--	1
Kerosene-Type Jet Fuel	--	0	418	86	18	--	-8	--	31	500
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	552	15	38	--	24	--	69	512
15 ppm sulfur and under	--	0	522	15	38	--	20	--	64	491
Greater than 15 ppm to 500 ppm sulfur	--	--	9	--	--	--	0	--	2	7
Greater than 500 ppm sulfur	--	--	20	--	--	--	3	--	3	14
Residual Fuel Oil	--	--	67	8	--	--	2	--	38	34
Less than 0.31 percent sulfur	--	--	2	--	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	3	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	43	5	--	--	5	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	--	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	16	0	--	--	2	--	9	5
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	129	--	-3	--	0	--	103	22
Marketable	--	--	99	--	-3	--	0	--	103	-8
Catalyst	--	--	30	--	--	--	--	--	--	30
Asphalt and Road Oil	--	--	26	5	12	--	9	--	1	33
Still Gas	--	--	119	--	--	--	--	--	--	119
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	851	40	2,745	1,632	586	17	119	2,581	357	2,815

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	781	--	--	1,199	84	67	6	2,119	5	0
Hydrocarbon Gas Liquids	70	0	47	45	33	--	5	77	51	60
Natural Gas Liquids	70	0	42	45	33	--	5	77	51	56
Ethane	0	--	--	--	--	--	0	--	0	0
Propane	8	--	32	26	13	--	1	--	26	52
Normal Butane	19	--	8	18	15	--	4	24	25	7
Isobutane	9	--	2	0	5	--	0	22	0	-6
Natural Gasoline	34	0	--	--	--	--	0	31	1	2
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	5	--	--	--	0	--	--	5
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	120	314	0	3	382	25	56
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	23	164	52	1	218	16	39
Hydrogen	--	--	--	--	--	45	--	45	--	0
Biofuels (including Fuel Ethanol)	--	33	--	23	164	7	1	172	16	39
Fuel Ethanol	--	7	--	4	138	7	1	147	8	0
Biofuels (excluding Fuel Ethanol) ⁶	--	26	--	19	26	--	0	25	8	39
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	1	--	-2	44	4	17
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	35	149	-52	5	121	5	0
Reformulated	--	0	--	5	63	8	2	73	0	0
Conventional	--	--	--	30	86	-60	3	48	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,699	151	67	45	2	--	241	2,721
Finished Motor Gasoline	--	2	1,440	25	3	45	0	--	27	1,488
Reformulated	--	--	1,005	--	--	1	0	--	--	1,006
Conventional	--	2	434	25	3	44	0	--	27	481
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	0	402	88	9	--	2	--	20	476
Kerosene	--	--	0	0	--	--	0	--	1	0
Distillate Fuel Oil	--	0	483	23	41	--	1	--	64	482
15 ppm sulfur and under	--	0	457	19	41	--	1	--	51	466
Greater than 15 ppm to 500 ppm sulfur	--	--	10	4	--	--	0	--	5	9
Greater than 500 ppm sulfur	--	--	16	1	--	--	0	--	9	7
Residual Fuel Oil	--	--	81	10	--	--	0	--	18	72
Less than 0.31 percent sulfur	--	--	2	--	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	5	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	58	4	--	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	11	1	-1	--	0	--	8	4
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	125	--	-1	--	0	--	102	22
Marketable	--	--	96	--	-1	--	0	--	102	-7
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	27	2	16	--	-1	--	1	45
Still Gas	--	--	116	--	--	--	--	--	--	116
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	851	35	2,746	1,514	497	112	16	2,579	322	2,838

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, November 2022
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,885	51,700	266,822	27,423	23,415	371,245	12,375
Alaskan	--	--	--	--	--	13,341	445
Lower 48 States	--	--	--	--	--	357,905	11,930
Imports (PAD District of Entry)	19,062	85,661	30,404	11,791	40,374	187,292	6,243
Commercial	19,062	85,661	30,404	11,791	40,374	187,292	6,243
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	2,712	-24,021	37,270	-19,525	3,564	--	--
Adjustments ¹	1,325	-1,874	23,320	-855	-916	21,001	700
Disposition							
Stock Change ²	-1,071	-6,946	-25,754	1,403	-871	-33,239	-1,108
Commercial	-1,071	-6,946	-15,604	1,403	-871	-23,089	-770
SPR	--	--	-10,150	--	--	-10,150	-338
Refinery Inputs	24,623	115,856	266,294	17,432	67,308	491,513	16,384
Exports	1,432	2,556	117,276	0	--	121,264	4,042
Ending Stocks							
Total	7,340	106,819	617,040	24,847	48,722	804,768	--
Commercial	7,340	106,819	228,621	24,847	48,722	416,349	--
Refinery	5,144	13,799	40,936	2,598	20,076	82,553	--
Tank Farms and Pipelines	2,196	93,020	187,685	22,249	24,808	329,958	--
Cushing, Oklahoma	--	24,204	--	--	--	24,204	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,838	3,838	--
SPR	--	--	388,419	--	--	388,419	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	48.3	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	24.1	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	19,062	85,661	30,404	11,791	40,374	187,292	6,243
PAD District of Processing	19,686	82,518	36,148	8,212	40,728	187,292	6,243

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, November 2022
(Thousand Barrels)

PAD District and State	November 2022		January-November 2022	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,885	63	20,747	62
Florida	94	3	1,120	3
New York	22	1	214	1
Pennsylvania	402	13	4,531	14
Virginia	0	0	4	0
West Virginia	1,367	46	14,879	45
PAD District 2	51,700	1,723	557,664	1,670
Illinois	582	19	6,369	19
Indiana	143	5	1,580	5
Kansas	2,319	77	26,089	78
Kentucky	126	4	1,927	6
Michigan	386	13	4,168	12
Missouri	6	0	62	0
Nebraska	134	4	1,489	4
North Dakota	32,459	1,082	356,523	1,067
Ohio	2,209	74	19,791	59
Oklahoma	13,249	442	138,642	415
South Dakota	74	2	886	3
Tennessee	14	0	138	0
PAD District 3	266,822	8,894	2,833,472	8,483
Alabama	325	11	3,526	11
Arkansas	364	12	4,051	12
Louisiana	3,032	101	33,562	100
Mississippi	1,055	35	11,623	35
New Mexico	51,696	1,723	519,120	1,554
Texas	156,311	5,210	1,680,386	5,031
Federal Offshore PAD District 3	54,039	1,801	581,204	1,740
PAD District 4	27,423	914	289,165	866
Colorado	13,312	444	144,753	433
Idaho	4	0	34	0
Montana	1,760	59	18,757	56
Utah	4,232	141	42,145	126
Wyoming	8,115	271	83,477	250
PAD District 5	23,415	780	260,755	781
Alaska	13,341	445	145,766	436
South Alaska	264	9	3,172	9
North Slope	13,076	436	142,594	427
Arizona	0	0	5	0
California	9,832	328	112,360	336
Nevada	22	1	212	1
Federal Offshore PAD District 5	220	7	2,412	7
U.S. Total	371,245	12,375	3,961,803	11,862

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	9	20,718	20,727	5,393	12,442	16,077	33,912
Natural Gas Liquids	9	20,718	20,727	5,393	12,442	16,077	33,912
Ethane	—	9,157	9,157	2,144	3,752	6,584	12,480
Propane	3	6,777	6,780	2,164	4,475	5,101	11,740
Normal Butane	6	2,017	2,023	455	1,888	1,438	3,781
Isobutane	—	942	942	370	607	1,119	2,096
Natural Gasoline	—	1,825	1,825	260	1,720	1,835	3,815

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	87,996	5,072	5,204	427	10,848	109,547	15,701	2,104	181,991
Natural Gas Liquids	87,996	5,072	5,204	427	10,848	109,547	15,701	2,104	181,991
Ethane	40,005	2,612	2,080	77	4,238	49,012	4,513	—	75,162
Propane	26,028	1,300	1,701	124	3,515	32,668	5,748	229	57,165
Normal Butane	8,753	-3,389	513	56	1,174	7,107	2,243	613	15,767
Isobutane	4,613	4,130	396	44	692	9,875	999	195	14,107
Natural Gasoline	8,597	419	514	126	1,229	10,885	2,198	1,067	19,790

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5	238	243	1,146	122	278	1,546
Natural Gas Liquids	5	238	243	1,146	122	278	1,546
Ethane	—	—	—	33	2	99	134
Propane	1	120	121	766	51	91	908
Normal Butane	4	33	37	133	23	25	181
Isobutane	—	21	21	91	5	27	123
Natural Gasoline	—	64	64	123	41	36	200

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	270	355	687	6	1	1,319	165	503	3,776
Natural Gas Liquids	270	355	687	6	1	1,319	165	503	3,776
Ethane	21	18	—	—	—	39	4	—	177
Propane	84	45	20	3	—	152	67	102	1,350
Normal Butane	36	32	204	2	—	274	31	371	894
Isobutane	85	13	281	—	—	379	16	17	556
Natural Gasoline	44	247	182	1	1	475	47	13	799

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,660	2,963	24,623	73,606	15,462	26,788	115,856
Hydrocarbon Gas Liquids	1,949	—	1,949	2,540	166	1,310	4,016
Natural Gas Liquids	1,949	—	1,949	2,540	166	1,310	4,016
Normal Butane	1,606	—	1,606	753	87	471	1,311
Isobutane	139	—	139	1,415	79	545	2,039
Natural Gasoline	204	—	204	372	—	294	666
Other Liquids	77,451	5,423	82,874	7,719	2,229	1,585	11,533
Hydrogen/Biofuels/Other Hydrocarbons	9,545	755	10,300	5,415	1,413	1,844	8,672
Hydrogen	89	—	89	637	294	167	1,098
Biofuels (including Fuel Ethanol)	9,456	755	10,211	4,774	1,119	1,677	7,570
Fuel Ethanol	9,149	662	9,811	4,626	1,066	1,601	7,293
Biodiesel	307	93	400	148	53	69	270
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	7	7
Other Hydrocarbons	—	—	—	4	—	—	4
Unfinished Oils (net)	889	-125	764	-335	83	118	-134
Naphthas and Lighter	133	-58	75	214	13	187	414
Kerosene and Light Gas Oils	236	—	236	-131	-3	33	-101
Heavy Gas Oils	186	-65	121	-337	73	-170	-434
Residuum	334	-2	332	-81	—	68	-13
Motor Gasoline Blend.Comp. (MGBC)(net)	67,017	4,793	71,810	2,639	733	-377	2,995
Reformulated - RBOB	12,888	—	12,888	26	1,002	821	1,849
Conventional	54,129	4,793	58,922	2,613	-269	-1,198	1,146
CBOB	45,318	4,797	50,115	2,922	-285	-1,200	1,437
GTAB	2,952	—	2,952	—	—	—	—
Other	5,859	-4	5,855	-309	16	2	-291
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	101,060	8,386	109,446	83,865	17,857	29,683	131,405

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,274	143,043	92,967	7,642	2,368	266,294	17,432	67,308	491,513
Hydrocarbon Gas Liquids	811	9,211	3,983	116	114	14,235	610	3,013	23,823
Natural Gas Liquids	811	9,211	3,983	116	114	14,235	610	3,013	23,823
Normal Butane	430	3,537	1,890	85	—	5,942	327	1,231	10,417
Isobutane	344	2,392	1,347	28	114	4,225	134	773	7,310
Natural Gasoline	37	3,282	746	3	—	4,068	149	1,009	6,096
Other Liquids	8,634	-45,104	-29,916	6,499	327	-59,560	1,023	7,107	42,977
Hydrogen/Biofuels/Other Hydrocarbons	2,176	3,136	2,069	1,049	217	8,647	1,114	6,628	35,361
Hydrogen	116	2,284	1,521	66	56	4,043	155	1,426	6,811
Biofuels (including Fuel Ethanol)	2,060	852	548	983	161	4,604	959	5,202	28,546
Fuel Ethanol	2,028	813	463	962	142	4,408	888	4,374	26,774
Biodiesel	32	39	52	21	19	163	39	368	1,240
Renewable Diesel Fuel	—	—	—	—	—	—	—	452	452
Other Biofuels ¹	—	—	33	—	—	33	32	8	80
Other Hydrocarbons	—	—	—	—	—	—	—	—	4
Unfinished Oils (net)	-155	-528	5,799	-132	-24	4,960	-111	533	6,012
Naphthas and Lighter	151	-5,158	832	-71	12	-4,234	10	-356	-4,091
Kerosene and Light Gas Oils	15	-287	-455	-27	-29	-783	-42	-536	-1,226
Heavy Gas Oils	-205	2,883	4,097	46	-7	6,814	103	1,865	8,469
Residuum	-116	2,034	1,325	-80	—	3,163	-182	-440	2,860
Motor Gasoline Blend.Comp. (MGBC)(net)	6,612	-47,712	-37,792	5,582	134	-73,176	20	-54	1,595
Reformulated - RBOB	5,524	-8,746	-1,282	6	-515	-5,013	—	288	10,012
Conventional	1,088	-38,966	-36,510	5,576	649	-68,163	20	-342	-8,417
CBOB	1,202	-32,929	-33,896	5,578	625	-59,420	-25	922	-6,971
GTAB	—	—	—	—	—	—	—	—	2,952
Other	-114	-6,037	-2,614	-2	24	-8,743	45	-1,264	-4,398
Aviation Gasoline Blend. Comp. (net)	1	—	8	—	—	9	—	—	9
Total Input	29,719	107,150	67,034	14,257	2,809	220,969	19,065	77,428	558,313

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	302	-37	265	819	-477	346	688
Natural Gas Liquids	-38	-37	-75	124	-566	133	-309
Ethane	-	-	-	-	-	-	-
Propane	454	23	477	1,558	272	485	2,315
Normal Butane	-458	-44	-502	-1,219	-780	-367	-2,366
Isobutane	-34	-16	-50	-215	-58	15	-258
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	340	-	340	695	89	213	997
Ethylene	15	-	15	-	-	-	-
Propylene	315	-	315	679	89	213	981
Normal Butylene	1	-	1	16	-	-	16
Isobutylene	9	-	9	-	-	-	-
Finished Motor Gasoline	89,097	6,598	95,695	47,529	10,197	16,156	73,882
Reformulated	36,782	40	36,822	7,954	1,365	913	10,232
Reformulated Blended with Fuel Ethanol	36,781	40	36,821	7,954	1,358	913	10,225
Reformulated Other	1	-	1	-	7	-	7
Conventional	52,315	6,558	58,873	39,575	8,832	15,243	63,650
Conventional Blended with Fuel Ethanol	53,382	6,573	59,955	37,639	8,866	13,999	60,504
Ed55 and Lower	53,299	6,573	59,872	37,612	8,815	13,844	60,271
Greater than Ed55	83	-	83	27	51	155	233
Conventional Other	-1,067	-15	-1,082	1,936	-34	1,244	3,146
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	2,675	-	2,675	6,574	754	878	8,206
Kerosene	219	7	226	225	-	75	300
Distillate Fuel Oil	6,632	790	7,422	20,486	5,534	10,813	36,833
15 ppm sulfur and under	6,774	764	7,538	20,524	5,489	10,822	36,835
Greater than 15 ppm to 500 ppm sulfur	41	-	41	-	-	73	73
Greater than 500 ppm sulfur	-183	26	-157	-38	45	-82	-75
Residual Fuel Oil	1,175	4	1,179	851	114	176	1,141
Less than 0.31 percent sulfur	-14	3	-11	71	-	-	71
0.31 to 1.00 percent sulfur	927	1	928	371	81	40	492
Greater than 1.00 percent sulfur	262	-	262	409	33	136	578
Petrochemical Feedstocks	-	-	-	864	-	-	864
Naphtha for Petro. Feed. Use	-	-	-	578	-	-	578
Other Oils for Petro. Feed. Use	-	-	-	286	-	-	286
Special Naphthas	-	9	9	-21	-	5	-16
Lubricants	186	205	391	-	-	173	173
Waxes	-	-19	-19	-	-	29	29
Petroleum Coke	663	18	681	3,772	886	868	5,526
Marketable	251	-	251	2,837	732	612	4,181
Catalyst	412	18	430	935	154	256	1,345
Asphalt and Road Oil	396	706	1,102	4,293	1,287	313	5,893
Still Gas	784	44	828	2,502	622	1,073	4,197
Miscellaneous Products	54	41	95	288	119	46	453
Total	102,183	8,366	110,549	88,182	19,036	30,951	138,169
Processing Gain(-) or Loss(+) ¹	-1,123	20	-1,103	-4,317	-1,179	-1,268	-6,764

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	358	5,541	3,508	-45	-2	9,360	94	-254	10,153
Natural Gas Liquids	34	2,318	1,788	-61	-2	4,077	24	-401	3,316
Ethane	4	136	34	—	—	174	—	—	174
Propane	248	2,500	1,931	15	28	4,722	192	922	8,628
Normal Butane	-219	88	-241	-76	-30	-478	-149	-1,398	-4,893
Isobutane	1	-406	64	—	—	-341	-19	75	-593
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	324	3,223	1,720	16	—	5,283	70	147	6,837
Ethylene	—	4	—	—	—	4	—	—	19
Propylene	266	3,427	1,809	16	—	5,518	47	169	7,030
Normal Butylene	58	-208	-89	—	—	-239	23	-22	-221
Isobutylene	—	—	—	—	—	—	—	—	9
Finished Motor Gasoline	20,208	27,103	10,273	9,015	1,530	68,129	10,229	42,355	290,290
Reformulated	7,179	6,525	—	—	—	13,704	—	29,583	90,341
Reformulated Blended with Fuel Ethanol	7,177	6,524	—	—	—	13,701	—	29,583	90,330
Reformulated Other	2	1	—	—	—	3	—	—	11
Conventional	13,029	20,578	10,273	9,015	1,530	54,425	10,229	12,772	199,949
Conventional Blended with Fuel Ethanol	12,953	1,415	4,651	9,465	1,448	29,932	8,739	13,410	172,540
Ed55 and Lower	12,942	1,414	4,651	9,444	1,447	29,898	8,711	13,402	172,154
Greater than Ed55	11	1	—	21	1	34	28	8	386
Conventional Other	76	19,163	5,622	-450	82	24,493	1,490	-638	27,409
Finished Aviation Gasoline	74	135	80	—	—	289	6	35	330
Kerosene-Type Jet Fuel	1,558	14,484	9,267	49	-1	25,357	974	12,552	49,764
Kerosene	-10	387	1	25	—	403	—	1	930
Distillate Fuel Oil	6,399	47,445	35,957	2,853	948	93,602	5,745	16,552	160,154
15 ppm sulfur and under	6,443	45,909	31,546	2,808	948	87,654	5,739	15,674	153,440
Greater than 15 ppm to 500 ppm sulfur	-44	315	2,351	51	—	2,673	42	284	3,113
Greater than 500 ppm sulfur	—	1,221	2,060	-6	—	3,275	-36	594	3,601
Residual Fuel Oil	377	1,092	521	13	-70	1,933	319	1,995	6,567
Less than 0.31 percent sulfur	281	—	771	—	—	1,052	154	48	1,314
0.31 to 1.00 percent sulfur	4	1,037	391	13	—	1,445	28	671	3,564
Greater than 1.00 percent sulfur	92	55	-641	—	-70	-564	137	1,276	1,689
Petrochemical Feedstocks	84	3,873	1,954	—	—	5,911	—	—	6,775
Naphtha for Petro. Feed. Use	100	2,167	1,279	—	—	3,546	—	—	4,124
Other Oils for Petro. Feed. Use	-16	1,706	675	—	—	2,365	—	—	2,651
Special Naphthas	66	631	—	200	—	897	—	25	915
Lubricants	12	1,326	1,368	909	—	3,615	—	473	4,652
Waxes	—	46	46	30	—	122	—	—	132
Petroleum Coke	487	8,039	5,569	185	22	14,302	573	3,858	24,940
Marketable	260	6,316	4,657	172	—	11,405	352	2,957	19,146
Catalyst	227	1,723	912	13	22	2,897	221	901	5,794
Asphalt and Road Oil	49	109	618	1,075	29	1,880	1,159	784	10,818
Still Gas	812	6,137	3,593	274	76	10,892	597	3,565	20,079
Miscellaneous Products	123	995	490	21	43	1,672	111	413	2,744
Total	30,597	117,343	73,245	14,604	2,575	238,364	19,807	82,354	589,243
Processing Gain(-) or Loss(+) ¹	-878	-10,193	-6,211	-347	234	-17,395	-742	-4,926	-30,930

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,660	2,963	24,623	73,606	15,462	26,788	115,856
Hydrocarbon Gas Liquids	347	—	347	2,516	79	885	3,480
Natural Gas Liquids	347	—	347	2,516	79	885	3,480
Normal Butane	208	—	208	729	—	46	775
Isobutane	139	—	139	1,415	79	545	2,039
Natural Gasoline	—	—	—	372	—	294	666
Other Liquids	-9,729	30	-9,699	-35,497	-6,011	-11,315	-52,823
Hydrogen/Biofuels/Other Hydrocarbons	151	153	304	866	476	353	1,695
Hydrogen	89	—	89	637	294	167	1,098
Biofuels (including Fuel Ethanol)	62	153	215	225	182	186	593
Fuel Ethanol	62	126	188	185	162	155	502
Biodiesel	—	27	27	40	20	24	84
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	7	7
Other Hydrocarbons	—	—	—	4	—	—	4
Unfinished Oils (net)	889	-125	764	-339	83	118	-138
Naphthas and Lighter	133	-58	75	214	13	187	414
Kerosene and Light Gas Oils	236	—	236	-131	-3	33	-101
Heavy Gas Oils	186	-65	121	-341	73	-170	-438
Residuum	334	-2	332	-81	—	68	-13
Motor Gasoline Blend.Comp. (MGBC)(net)	-10,769	2	-10,767	-36,024	-6,570	-11,786	-54,380
Reformulated - RBOB	-7,785	—	-7,785	-6,435	—	—	-6,435
Conventional	-2,984	2	-2,982	-29,589	-6,570	-11,786	-47,945
CBOB	-2,689	6	-2,683	-29,275	-6,491	-11,788	-47,554
GTAB	—	—	—	—	—	—	—
Other	-295	-4	-299	-314	-79	2	-391
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	12,278	2,993	15,271	40,625	9,530	16,358	66,513
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	748	99	847	2,443	530	892	3,865
Operable Capacity (daily average)	780	98	878	2,721	548	928	4,197
Operable Utilization Rate (percent) ²	96.0	100.8	96.5	89.8	96.7	96.1	92.1
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	121	15	136	449	61	166	676
Catalytic Cracking	239	15	254	669	133	220	1,021
Catalytic Hydrocracking	43	—	43	170	62	33	265
Delayed and Fluid Coking	36	—	36	303	71	87	461
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.79	1.78	0.91	1.62	1.87	0.58	1.41
API Gravity, Weighted Average (degrees)	36.06	31.77	35.49	33.15	27.54	39.74	33.84
Operable Capacity (daily average)	780	98	878	2,721	548	928	4,197
Operating	780	98	878	2,570	510	928	4,008
Idle	—	—	—	151	38	—	189
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,274	143,043	92,967	7,642	2,368	266,294	17,432	67,308	491,513
Hydrocarbon Gas Liquids	721	5,936	3,641	71	114	10,483	536	2,950	17,796
Natural Gas Liquids	721	5,936	3,641	71	114	10,483	536	2,950	17,796
Normal Butane	340	2,599	1,548	40	—	4,527	258	1,168	6,936
Isobutane	344	2,392	1,347	28	114	4,225	131	773	7,307
Natural Gasoline	37	945	746	3	—	1,731	147	1,009	3,553
Other Liquids	-9,450	-53,445	-32,427	-2,000	-1,008	-98,330	-4,541	-33,280	-198,673
Hydrogen/Biofuels/Other Hydrocarbons	309	2,315	1,786	111	67	4,588	480	1,941	9,008
Hydrogen	116	2,284	1,521	66	56	4,043	155	1,426	6,811
Biofuels (including Fuel Ethanol)	193	31	265	45	11	545	325	515	2,193
Fuel Ethanol	173	41	180	44	6	444	273	131	1,538
Biodiesel	20	-10	52	1	5	68	20	14	213
Renewable Diesel Fuel	—	—	—	—	—	—	—	362	362
Other Biofuels ¹	—	—	33	—	—	33	32	8	80
Other Hydrocarbons	—	—	—	—	—	—	—	—	4
Unfinished Oils (net)	-155	-528	5,799	-132	-24	4,960	-111	533	6,008
Naphthas and Lighter	151	-5,158	832	-71	12	-4,234	10	-356	-4,091
Kerosene and Light Gas Oils	15	-287	-455	-27	-29	-783	-42	-536	-1,226
Heavy Gas Oils	-205	2,883	4,097	46	-7	6,814	103	1,865	8,465
Residuum	-116	2,034	1,325	-80	—	3,163	-182	-440	2,860
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,605	-55,232	-40,020	-1,979	-1,051	-107,887	-4,910	-35,754	-213,698
Reformulated - RBOB	-980	-14,834	-1,282	—	-515	-17,611	—	-25,703	-57,534
Conventional	-8,625	-40,398	-38,738	-1,979	-536	-90,276	-4,910	-10,051	-156,164
CBOB	-8,511	-30,001	-35,252	-1,977	-527	-76,268	-4,954	-8,747	-140,206
GTAB	—	—	—	—	—	—	—	—	—
Other	-114	-10,397	-3,486	-2	-9	-14,008	44	-1,304	-15,958
Aviation Gasoline Blend. Comp. (net)	1	—	8	—	—	9	—	—	9
Total Input to Refineries	11,545	95,534	64,181	5,713	1,474	178,447	13,427	36,978	310,636
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	680	4,913	3,338	225	79	9,236	574	2,418	16,940
Operable Capacity (daily average)	746	5,224	3,288	260	110	9,628	650	2,650	18,002
Operable Utilization Rate (percent) ²	91.1	94.1	101.5	86.7	71.8	95.9	88.3	91.3	94.1
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	149	803	575	40	17	1,584	92	350	2,838
Catalytic Cracking	157	1,299	719	15	26	2,216	164	614	4,269
Catalytic Hydrocracking	49	568	434	20	13	1,084	13	466	1,870
Delayed and Fluid Coking	31	780	516	32	—	1,359	35	402	2,293
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.57	1.40	1.35	1.32	0.83	1.29	1.33	1.37	1.31
API Gravity, Weighted Average (degrees)	40.10	34.13	31.90	31.40	39.30	33.95	33.38	29.04	33.30
Operable Capacity (daily average)	746	5,224	3,288	260	110	9,628	650	2,650	18,002
Operating	746	5,224	3,288	260	110	9,628	641	2,644	17,798
Idle	—	—	—	—	—	—	10	6	204
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	11,257	11,257

— = Not Applicable.

— = No Data Reported.

NA = Not Available.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	302	-37	265	819	-477	346	688
Natural Gas Liquids	-38	-37	-75	124	-566	133	-309
Ethane	-	-	-	-	-	-	-
Propane	454	23	477	1,558	272	485	2,315
Normal Butane	-458	-44	-502	-1,219	-780	-367	-2,366
Isobutane	-34	-16	-50	-215	-58	15	-258
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	340	-	340	695	89	213	997
Ethylene	15	-	15	-	-	-	-
Propylene	315	-	315	679	89	213	981
Normal Butylene	1	-	1	16	-	-	16
Isobutylene	9	-	9	-	-	-	-
Finished Motor Gasoline	621	1,266	1,887	4,377	1,904	2,876	9,157
Reformulated	621	-	621	-	-	-	-
Reformulated Blended with Fuel Ethanol	621	-	621	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,266	1,266	4,377	1,904	2,876	9,157
Conventional Blended with Fuel Ethanol	-	1,272	1,272	1,885	1,554	1,580	5,019
Ed55 and Lower	-	1,272	1,272	1,885	1,554	1,580	5,019
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	-6	-6	2,492	350	1,296	4,138
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	2,675	-	2,675	6,586	754	878	8,218
Kerosene	227	7	234	225	-	75	300
Distillate Fuel Oil	6,307	729	7,036	20,391	5,501	10,770	36,662
15 ppm sulfur and under	6,446	703	7,149	20,429	5,456	10,778	36,663
Greater than 15 ppm to 500 ppm sulfur	40	-	40	-	-	-35	-35
Greater than 500 ppm sulfur	-179	26	-153	-38	45	27	34
Residual Fuel Oil	1,193	4	1,197	851	114	176	1,141
Less than 0.31 percent sulfur	-	3	3	71	-	-	71
0.31 to 1.00 percent sulfur	927	1	928	371	81	40	492
Greater than 1.00 percent sulfur	266	-	266	409	33	136	578
Petrochemical Feedstocks	-	-	-	864	-	-	864
Naphtha for Petro. Feed. Use	-	-	-	578	-	-	578
Other Oils for Petro. Feed. Use	-	-	-	286	-	-	286
Special Naphthas	-	9	9	-21	-	5	-16
Lubricants	186	205	391	-	-	173	173
Waxes	-	-19	-19	-	-	29	29
Petroleum Coke	663	18	681	3,772	886	868	5,526
Marketable	251	-	251	2,837	732	612	4,181
Catalyst	412	18	430	935	154	256	1,345
Asphalt and Road Oil	389	706	1,095	4,289	1,287	312	5,888
Still Gas	784	44	828	2,502	622	1,073	4,197
Miscellaneous Products	54	41	95	288	119	46	453
Total	13,401	2,973	16,374	44,943	10,710	17,627	73,280
Processing Gain(-) or Loss(+) ¹	-1,123	20	-1,103	-4,318	-1,180	-1,269	-6,767

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	358	5,541	3,508	-45	-2	9,360	94	-254	10,153
Natural Gas Liquids	34	2,318	1,788	-61	-2	4,077	24	-401	3,316
Ethane	4	136	34	—	—	174	—	—	174
Propane	248	2,500	1,931	15	28	4,722	192	922	8,628
Normal Butane	-219	88	-241	-76	-30	-478	-149	-1,398	-4,893
Isobutane	1	-406	64	—	—	-341	-19	75	-593
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	324	3,223	1,720	16	—	5,283	70	147	6,837
Ethylene	—	4	—	—	—	4	—	—	19
Propylene	266	3,427	1,809	16	—	5,518	47	169	7,030
Normal Butylene	58	-208	-89	—	—	-239	23	-22	-221
Isobutylene	—	—	—	—	—	—	—	—	9
Finished Motor Gasoline	2,051	15,538	7,421	495	206	25,711	4,609	2,353	43,717
Reformulated	—	—	—	—	—	—	—	626	1,247
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	626	1,247
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,051	15,538	7,421	495	206	25,711	4,609	1,727	42,470
Conventional Blended with Fuel Ethanol	1,808	410	1,809	466	67	4,560	2,747	691	14,289
Ed55 and Lower	1,808	410	1,809	466	67	4,560	2,747	691	14,289
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	243	15,128	5,612	29	139	21,151	1,862	1,036	28,181
Finished Aviation Gasoline	74	135	80	—	—	289	6	35	330
Kerosene-Type Jet Fuel	1,558	14,452	9,262	49	—	25,321	923	12,551	49,688
Kerosene	-10	419	0	25	—	434	—	1	969
Distillate Fuel Oil	6,386	47,393	35,963	2,833	936	93,511	5,777	16,113	159,099
15 ppm sulfur and under	6,430	45,857	31,552	2,788	936	87,563	5,771	15,242	152,388
Greater than 15 ppm to 500 ppm sulfur	-44	315	2,351	51	—	2,673	42	284	3,004
Greater than 500 ppm sulfur	—	1,221	2,060	-6	—	3,275	-36	587	3,707
Residual Fuel Oil	377	1,092	521	13	-70	1,933	319	1,995	6,585
Less than 0.31 percent sulfur	281	—	771	—	—	1,052	154	48	1,328
0.31 to 1.00 percent sulfur	4	1,037	391	13	—	1,445	28	672	3,565
Greater than 1.00 percent sulfur	92	55	-641	—	-70	-564	137	1,275	1,692
Petrochemical Feedstocks	84	3,873	1,954	—	—	5,911	—	—	6,775
Naphtha for Petro. Feed. Use	100	2,167	1,279	—	—	3,546	—	—	4,124
Other Oils for Petro. Feed. Use	-16	1,706	675	—	—	2,365	—	—	2,651
Special Naphthas	66	631	—	200	—	897	—	25	915
Lubricants	12	1,326	1,368	909	—	3,615	—	473	4,652
Waxes	—	46	46	30	—	122	—	—	132
Petroleum Coke	487	8,039	5,569	185	22	14,302	573	3,858	24,940
Marketable	260	6,316	4,657	172	—	11,405	352	2,957	19,146
Catalyst	227	1,723	912	13	22	2,897	221	901	5,794
Asphalt and Road Oil	49	109	618	1,075	29	1,880	1,159	784	10,806
Still Gas	812	6,137	3,593	274	76	10,892	597	3,565	20,079
Miscellaneous Products	123	995	490	21	43	1,672	111	413	2,744
Total	12,427	105,726	70,393	6,064	1,240	195,850	14,168	41,912	341,584
Processing Gain(-) or Loss(+) ¹	-882	-10,192	-6,212	-351	234	-17,403	-741	-4,934	-30,948

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,602	—	1,602	24	87	425	536
Natural Gas Liquids	1,602	—	1,602	24	87	425	536
Normal Butane	1,398	—	1,398	24	87	425	536
Isobutane	—	—	—	—	—	—	—
Natural Gasoline	204	—	204	—	—	—	—
Other Liquids	87,180	5,393	92,573	43,216	8,240	12,900	64,356
Oxygenates/Renewables	9,394	602	9,996	4,549	937	1,491	6,977
Biofuels (including Fuel Ethanol)	9,394	602	9,996	4,549	937	1,491	6,977
Fuel Ethanol	9,087	536	9,623	4,441	904	1,446	6,791
Biodiesel	307	66	373	108	33	45	186
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	4	—	—	4
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	4	—	—	4
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	77,786	4,791	82,577	38,663	7,303	11,409	57,375
Reformulated - RBOB	20,673	—	20,673	6,461	1,002	821	8,284
Conventional	57,113	4,791	61,904	32,202	6,301	10,588	49,091
CBOB	48,007	4,791	52,798	32,197	6,206	10,588	48,991
GTAB	2,952	—	2,952	—	—	—	—
Other	6,154	—	6,154	5	95	—	100
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	88,782	5,393	94,175	43,240	8,327	13,325	64,892

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	90	3,275	342	45	—	3,752	74	63	6,027
Natural Gas Liquids	90	3,275	342	45	—	3,752	74	63	6,027
Normal Butane	90	938	342	45	—	1,415	69	63	3,481
Isobutane	—	—	—	—	—	—	3	—	3
Natural Gasoline	—	2,337	—	—	—	2,337	2	—	2,543
Other Liquids	18,084	8,341	2,511	8,499	1,335	38,770	5,564	40,387	241,650
Oxygenates/Renewables	1,867	821	283	938	150	4,059	634	4,687	26,353
Biofuels (including Fuel Ethanol)	1,867	821	283	938	150	4,059	634	4,687	26,353
Fuel Ethanol	1,855	772	283	918	136	3,964	615	4,243	25,236
Biodiesel	12	49	—	20	14	95	19	354	1,027
Renewable Diesel Fuel	—	—	—	—	—	—	—	90	90
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	—	—	—	—	—	4
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—	—	4
Residuum	—	—	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	16,217	7,520	2,228	7,561	1,185	34,711	4,930	35,700	215,293
Reformulated - RBOB	6,504	6,088	—	6	—	12,598	—	25,991	67,546
Conventional	9,713	1,432	2,228	7,555	1,185	22,113	4,930	9,709	147,747
CBOB	9,713	-2,928	1,356	7,555	1,152	16,848	4,929	9,669	133,235
GTAB	—	—	—	—	—	—	—	—	2,952
Other	—	4,360	872	—	33	5,265	1	40	11,560
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	18,174	11,616	2,853	8,544	1,335	42,522	5,638	40,450	247,677

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	88,476	5,332	93,808	43,152	8,293	13,280	64,725
Reformulated	36,161	40	36,201	7,954	1,365	913	10,232
Reformulated Blended with Fuel Ethanol	36,160	40	36,200	7,954	1,358	913	10,225
Reformulated Other	1	-	1	-	7	-	7
Conventional	52,315	5,292	57,607	35,198	6,928	12,367	54,493
Conventional Blended with Fuel Ethanol	53,382	5,301	58,683	35,754	7,312	12,419	55,485
Ed55 and Lower	53,299	5,301	58,600	35,727	7,261	12,264	55,252
Greater than Ed55	83	-	83	27	51	155	233
Conventional Other	-1,067	-9	-1,076	-556	-384	-52	-992
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-12	-	0	-12
Kerosene	-8	-	-8	-	-	-	-
Distillate Fuel Oil	325	61	386	95	33	43	171
15 ppm sulfur and under	328	61	389	95	33	44	172
Greater than 15 ppm to 500 ppm sulfur	1	-	1	-	-	108	108
Greater than 500 ppm sulfur	-4	-	-4	-	-	-109	-109
Residual Fuel Oil	-18	-	-18	-	-	-	-
Less than 0.31 percent sulfur	-14	-	-14	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	-4	-	-4	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	7	-	7	4	-	1	5
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	88,782	5,393	94,175	43,239	8,326	13,324	64,889
Processing Gain(-) or Loss(+) ¹	0	0	0	1	1	1	3

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,157	11,565	2,852	8,520	1,324	42,418	5,620	40,002	246,573
Reformulated	7,179	6,525	-	-	-	13,704	-	28,957	89,094
Reformulated Blended with Fuel Ethanol	7,177	6,524	-	-	-	13,701	-	28,957	89,083
Reformulated Other	2	1	-	-	-	3	-	-	11
Conventional	10,978	5,040	2,852	8,520	1,324	28,714	5,620	11,045	157,479
Conventional Blended with Fuel Ethanol	11,145	1,005	2,842	8,999	1,381	25,372	5,992	12,719	158,251
Ed55 and Lower	11,134	1,004	2,842	8,978	1,380	25,338	5,964	12,711	157,865
Greater than Ed55	11	1	-	21	1	34	28	8	386
Conventional Other	-167	4,035	10	-479	-57	3,342	-372	-1,674	-772
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	32	5	-	-1	36	51	1	76
Kerosene	-	-32	1	-	-	-31	-	-	-39
Distillate Fuel Oil	13	52	-6	20	12	91	-32	439	1,055
15 ppm sulfur and under	13	52	-6	20	12	91	-32	432	1,052
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	109
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	7	-106
Residual Fuel Oil	-	-	-	-	-	-	-	0	-18
Less than 0.31 percent sulfur	-	-	-	-	-	-	-	-	-14
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-	-1	-1
Greater than 1.00 percent sulfur	-	-	-	-	-	-	-	1	-3
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-	-	-	-	-	12
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,170	11,617	2,852	8,540	1,335	42,514	5,639	40,442	247,659
Processing Gain(-) or Loss(+) ¹	4	-1	1	4	0	8	-1	8	18

¹ = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	4,444	700	5,144	9,835	2,038	1,926	13,799
Petroleum Products	10,003	2,147	12,150	30,116	6,923	11,403	48,442
Hydrocarbon Gas Liquids	593	36	629	2,352	375	1,423	4,150
Natural Gas Liquids	315	36	351	2,001	362	1,383	3,746
Ethane	—	—	—	—	—	—	—
Propane	116	3	119	581	38	771	1,390
Normal Butane	160	21	181	1,082	280	178	1,540
Isobutane	39	12	51	266	44	231	541
Natural Gasoline	—	—	—	72	—	203	275
Refinery Olefins	278	0	278	351	13	40	404
Ethylene	—	—	—	—	—	—	—
Propylene	164	0	164	333	13	40	386
Normal Butylene	109	0	109	18	0	0	18
Isobutylene	5	0	5	0	0	0	0
Biofuels/Other Hydrocarbons	128	120	248	61	46	27	134
Biofuels (including Fuel Ethanol)	128	120	248	40	46	27	113
Fuel Ethanol	128	108	236	35	43	24	102
Biodiesel	—	12	12	5	3	3	11
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	21	—	—	21
Unfinished Oils	3,536	399	3,935	8,022	787	4,124	12,933
Naphthas and Lighter	670	238	908	1,917	136	1,207	3,260
Kerosene and Light Gas Oils	444	—	444	1,705	323	368	2,396
Heavy Gas Oils	1,791	154	1,945	3,154	328	1,682	5,164
Residuum	631	7	638	1,246	—	867	2,113
Motor Gasoline Blending Components (MGBC)	2,914	228	3,142	8,480	1,989	2,756	13,225
Reformulated - RBOB	1,335	—	1,335	825	—	—	825
Conventional	1,579	228	1,807	7,655	1,989	2,756	12,400
CBOB	35	171	206	3,072	1,200	1,704	5,976
GTAB	—	—	—	—	—	—	—
Other	1,544	57	1,601	4,583	789	1,052	6,424
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	33	33	561	97	200	858
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	33	33	561	97	200	858
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	33	33	561	97	200	858
Finished Aviation Gasoline	—	—	—	—	44	—	44
Kerosene-Type Jet Fuel	531	—	531	1,540	200	245	1,985
Kerosene	70	5	75	191	—	75	266
Distillate Fuel Oil	1,248	245	1,493	3,832	980	1,665	6,477
15 ppm sulfur and under	1,009	160	1,169	3,720	869	1,478	6,067
Greater than 15 ppm to 500 ppm sulfur	99	59	158	—	—	109	109
Greater than 500 ppm sulfur	140	26	166	112	111	78	301
Residual Fuel Oil	227	14	241	730	141	83	954
Less than 0.31 percent sulfur	—	12	12	189	—	—	189
0.31 to 1.00 percent sulfur	39	2	41	157	35	29	221
Greater than 1.00 percent sulfur	188	—	188	384	106	54	544
Petrochemical Feedstocks	—	—	—	514	—	—	514
Naphtha for Petro. Feed. Use	—	—	—	389	—	—	389
Other Oils for Petro. Feed. Use	—	—	—	125	—	—	125
Special Naphthas	—	36	36	59	—	10	69
Lubricants	639	261	900	—	—	237	237
Waxes	—	205	205	—	—	48	48
Petroleum Coke	—	—	—	834	1,078	194	2,106
Marketable	—	—	—	834	1,078	194	2,106
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	100	524	624	2,856	1,164	310	4,330
Miscellaneous Products	17	41	58	84	22	6	112
Total Stocks, All Oils	14,447	2,847	17,294	39,951	8,961	13,329	62,241

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	2,126	24,391	13,165	950	304	40,936	2,598	20,076	82,553
Petroleum Products	10,483	59,504	40,830	3,901	1,127	115,845	9,787	48,795	235,019
Hydrocarbon Gas Liquids	3,108	1,626	1,191	14	86	6,025	408	1,588	12,800
Natural Gas Liquids	2,424	1,222	1,076	14	86	4,822	310	1,561	10,790
Ethane	22	1	—	—	—	23	—	—	23
Propane	653	236	80	2	4	975	29	92	2,605
Normal Butane	1,553	757	389	8	73	2,780	194	1,114	5,809
Isobutane	196	197	322	4	9	728	80	353	1,753
Natural Gasoline	—	31	285	—	—	316	7	2	600
Refinery Olefins	684	404	115	0	0	1,203	98	27	2,010
Ethylene	0	0	—	—	—	0	—	—	0
Propylene	484	52	64	0	0	600	7	11	1,168
Normal Butylene	200	352	51	0	0	603	91	16	837
Isobutylene	0	0	0	0	0	0	0	0	5
Biofuels/Other Hydrocarbons	36	772	115	28	5	956	94	966	2,398
Biofuels (including Fuel Ethanol)	36	772	115	28	5	956	94	966	2,377
Fuel Ethanol	29	733	66	22	4	854	86	187	1,465
Biodiesel	7	39	49	6	1	102	8	6	139
Renewable Diesel Fuel	—	—	—	—	—	—	—	773	773
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	21
Unfinished Oils	2,380	21,405	13,705	1,119	471	39,080	2,746	17,704	76,398
Naphthas and Lighter	960	6,098	1,540	225	128	8,951	566	2,918	16,603
Kerosene and Light Gas Oils	369	3,486	2,084	230	119	6,288	518	3,029	12,675
Heavy Gas Oils	664	8,539	7,354	559	224	17,340	979	8,195	33,623
Residuum	387	3,282	2,727	105	—	6,501	683	3,562	13,497
Motor Gasoline Blending Components (MGBC)	2,669	13,304	10,395	308	237	26,913	2,828	14,471	60,579
Reformulated - RBOB	136	1,046	74	—	6	1,262	—	5,291	8,713
Conventional	2,533	12,258	10,321	308	231	25,651	2,828	9,180	51,866
CBOB	1,356	3,885	5,443	238	29	10,951	1,516	2,487	21,136
GTAB	—	—	—	—	—	—	—	—	—
Other	1,177	8,373	4,878	70	202	14,700	1,312	6,693	30,730
Aviation Gasoline Blending Components	21	—	18	—	—	39	—	—	39
Finished Motor Gasoline	93	2,087	1,056	13	6	3,255	659	592	5,397
Reformulated	—	—	—	—	—	—	—	17	17
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	17	17
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	93	2,087	1,056	13	6	3,255	659	575	5,380
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	67	—	67
Ed55 and Lower	—	—	—	—	—	—	67	—	67
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	93	2,087	1,056	13	6	3,255	592	575	5,313
Finished Aviation Gasoline	38	135	129	—	—	302	9	161	516
Kerosene-Type Jet Fuel	316	2,888	1,633	49	—	4,886	320	3,435	11,157
Kerosene	23	70	1	3	—	97	1	2	441
Distillate Fuel Oil	787	8,823	5,966	422	109	16,107	1,525	4,843	30,445
15 ppm sulfur and under	748	7,434	4,906	306	109	13,503	1,384	4,254	26,377
Greater than 15 ppm to 500 ppm sulfur	39	108	523	17	—	687	96	241	1,291
Greater than 500 ppm sulfur	—	1,281	537	99	—	1,917	45	348	2,777
Residual Fuel Oil	239	2,161	1,149	13	66	3,628	194	2,249	7,266
Less than 0.31 percent sulfur	16	—	38	—	—	54	29	25	309
0.31 to 1.00 percent sulfur	65	370	272	13	—	720	4	454	1,440
Greater than 1.00 percent sulfur	158	1,791	839	—	66	2,854	161	1,770	5,517
Petrochemical Feedstocks	50	1,457	542	4	—	2,053	—	—	2,567
Naphtha for Petro. Feed. Use	46	875	511	4	—	1,436	—	—	1,825
Other Oils for Petro. Feed. Use	4	582	31	—	—	617	—	—	742
Special Naphthas	87	541	—	182	—	810	—	25	940
Lubricants	43	1,951	2,356	884	—	5,234	—	658	7,029
Waxes	—	124	116	99	—	339	—	—	592
Petroleum Coke	91	1,704	1,619	—	—	3,414	76	1,297	6,893
Marketable	91	1,704	1,619	—	—	3,414	76	1,297	6,893
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	299	214	715	762	122	2,112	904	729	8,699
Miscellaneous Products	203	242	124	1	25	595	23	75	863
Total Stocks, All Oils	12,609	83,895	53,995	4,851	1,431	156,781	12,385	68,871	317,572

-- = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, November 2022

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1.3	-1.3	1.0	1.1	-3.0	1.3	0.6
Finished Motor Gasoline ¹	48.5	40.1	47.6	51.0	52.0	50.3	51.0
Finished Aviation Gasoline ²	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	11.8	—	10.5	8.9	4.8	3.2	7.0
Kerosene	1.0	0.3	0.9	0.3	—	0.3	0.3
Distillate Fuel Oil ³	27.9	24.7	27.5	27.5	34.6	39.7	31.3
Residual Fuel Oil	5.3	0.1	4.7	1.2	0.7	0.7	1.0
Naphtha for Petro. Feed. Use	—	—	—	0.8	—	—	0.5
Other Oils for Petro. Feed. Use	—	—	—	0.4	—	—	0.2
Special Naphthas	—	0.3	0.0	0.0	—	0.0	0.0
Lubricants	0.8	7.2	1.5	—	—	0.6	0.2
Waxes	—	-0.7	-0.1	—	—	0.1	0.0
Petroleum Coke	2.9	0.6	2.7	5.1	5.6	3.2	4.7
Asphalt and Road Oil	1.7	24.9	4.3	5.8	8.1	1.2	5.0
Still Gas	3.5	1.6	3.3	3.4	3.9	4.0	3.6
Miscellaneous Products	0.2	1.4	0.4	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.0	0.7	-4.3	-5.8	-7.4	-4.7	-5.8

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1.8	3.8	3.5	-0.6	-0.1	3.4	0.5	-0.4	2.0
Finished Motor Gasoline ¹	53.2	44.8	43.5	31.1	47.4	44.6	49.8	50.6	47.2
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	7.7	10.0	9.2	0.7	—	9.2	5.3	18.1	9.9
Kerosene	-0.1	0.3	0.0	0.3	—	0.2	—	0.0	0.2
Distillate Fuel Oil ³	31.5	32.7	35.8	37.4	38.8	33.9	32.8	22.7	31.4
Residual Fuel Oil	1.9	0.8	0.5	0.2	-2.9	0.7	1.8	2.9	1.3
Naphtha for Petro. Feed. Use	0.5	1.5	1.3	—	—	1.3	—	—	0.8
Other Oils for Petro. Feed. Use	-0.1	1.2	0.7	—	—	0.9	—	—	0.5
Special Naphthas	0.3	0.4	—	2.6	—	0.3	—	0.0	0.2
Lubricants	0.1	0.9	1.4	12.0	—	1.3	—	0.7	0.9
Waxes	—	0.0	0.1	0.4	—	0.0	—	—	0.0
Petroleum Coke	2.4	5.6	5.6	2.4	0.9	5.2	3.3	5.6	5.0
Asphalt and Road Oil	0.2	0.1	0.6	14.2	1.2	0.7	6.6	1.1	2.1
Still Gas	4.0	4.2	3.6	3.6	3.2	4.0	3.4	5.2	4.0
Miscellaneous Products	0.6	0.7	0.5	0.3	1.8	0.6	0.6	0.6	0.5
Processing Gain(-) or Loss(+) ⁴	-4.3	-7.0	-6.2	-4.6	9.8	-6.3	-4.3	-7.1	-6.1

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas liquids, fuel ethanol, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, renewable diesel fuel, and other biofuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Data source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, November 2022
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil		
	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	2,105	1,378	3,483
Connecticut	—	—	—
Delaware	—	—	—
Florida	—	470	470
Georgia	—	—	—
Maine	—	—	—
Maryland	—	—	—
Massachusetts	—	—	—
New Hampshire	—	—	—
New Jersey	1,802	908	2,710
New York	—	—	—
North Carolina	—	—	—
Pennsylvania	303	—	303
Rhode Island	—	—	—
South Carolina	—	—	—
Vermont	—	—	—
Virginia	—	—	—
West Virginia	—	—	—
PAD District 2	7	108	115
Illinois	—	—	—
Indiana	—	—	—
Michigan	—	76	76
Minnesota	3	—	3
North Dakota	4	32	36
Ohio	—	—	—
Wisconsin	—	—	—
PAD District 3	—	3,670	3,670
Alabama	—	—	—
Louisiana	—	649	649
Mississippi	—	939	939
New Mexico	—	—	—
Texas	—	2,082	2,082
PAD District 4	—	—	—
Idaho	—	—	—
Montana	—	—	—
PAD District 5	78	151	229
Alaska	—	—	—
California	38	76	114
Hawaii	—	—	—
Oregon	—	—	—
Washington	40	75	115
U.S. Total	2,190	5,307	7,497

— = No Data Reported.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, November 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	19,686	82,518	36,148	8,212	40,728	187,292	6,243
Hydrocarbon Gas Liquids	1,300	2,466	—	471	1,513	5,750	192
Natural Gas Liquids	1,128	2,116	—	471	1,513	5,228	174
Ethane	—	—	—	—	—	—	—
Propane	1,085	1,446	—	442	890	3,863	129
Normal Butane	28	517	—	29	621	1,195	40
Isobutane	15	146	—	—	2	163	5
Natural Gasoline	—	7	—	—	—	7	0
Refinery Olefins	172	350	—	—	—	522	17
Ethylene	—	—	—	—	—	—	—
Propylene	172	151	—	—	—	323	11
Normal Butylene	—	199	—	—	—	199	7
Isobutylene	—	—	—	—	—	—	—
Other Liquids	14,527	805	13,552	15	3,092	31,991	1,066
Hydrogen/Biofuels/Other Hydrocarbons	746	143	181	7	1,018	2,095	70
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	746	143	181	7	1,018	2,095	70
Fuel Ethanol	251	—	—	—	249	500	17
Biodiesel	495	143	181	7	77	903	30
Renewable Diesel Fuel	—	—	—	—	692	692	23
Other Biofuels ³	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils ¹	1,153	—	13,133	—	1,527	15,813	527
Naphthas and Lighter	495	—	—	—	—	495	17
Kerosene and Lighter Gas Oils	—	—	5	—	—	5	0
Heavy Gas Oils	658	—	7,916	—	1,527	10,101	337
Residuum	—	—	5,212	—	—	5,212	174
Motor Gasoline Blend.Comp. (MGBC)	12,628	662	238	8	547	14,083	469
Reformulated - RBOB	4,341	—	—	—	—	4,341	145
Conventional	8,287	662	238	8	547	9,742	325
CBOB	741	243	—	—	—	984	33
GTAB	2,092	—	—	—	—	2,092	70
Other	5,454	419	238	8	547	6,666	222
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	14,547	1,384	4,533	143	3,989	24,596	820
Finished Motor Gasoline	2,453	—	—	—	521	2,974	99
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,453	—	—	—	521	2,974	99
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,453	—	—	—	521	2,974	99
Finished Aviation Gasoline	—	2	18	—	1	21	1
Kerosene-Type Jet Fuel	1,733	—	1	—	2,577	4,311	144
Bonded Aircraft Fuel	222	—	—	—	638	860	29
Other	1,511	—	1	—	1,939	3,451	115
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	5,920	421	—	48	440	6,829	228
15 ppm sulfur and under	5,907	417	—	48	440	6,812	227
Bonded	—	50	—	—	—	50	2
Other	5,907	367	—	48	440	6,762	225
Greater than 15 ppm to 500 ppm sulfur	13	3	—	—	—	16	1
Bonded	—	—	—	—	—	—	—
Other	13	3	—	—	—	16	1
Greater than 500 ppm to 2000 ppm sulfur	—	1	—	—	—	1	0
Bonded	—	—	—	—	—	—	—
Other	—	1	—	—	—	1	0
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	3,483	115	3,670	—	229	7,497	250
Less than 0.31 percent sulfur	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	2,105	7	—	—	78	2,190	73
Greater than 1.00 percent sulfur	1,378	108	3,670	—	151	5,307	177
Petrochemical Feedstocks	44	137	67	—	69	317	11
Naphtha for Petro. Feed. Use	44	79	36	—	69	228	8
Other Oils for Petro. Feed. Use	—	58	31	—	—	89	3
Special Naphthas	3	3	124	—	—	130	4
Lubricants	115	223	626	—	3	967	32
Waxes	78	9	27	—	11	125	4
Petroleum Coke (Marketable)	—	24	—	—	—	24	1
Asphalt and Road Oil	718	450	—	94	138	1,400	47
Miscellaneous Products	—	—	—	1	—	1	0
Total	50,060	87,173	54,233	8,841	49,322	249,629	8,321

-- = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-November 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	205,169	875,334	529,766	94,469	400,996	2,105,734	6,305
Hydrocarbon Gas Liquids	13,244	24,971	99	4,043	15,013	57,370	172
Natural Gas Liquids	10,408	22,795	48	4,043	15,013	52,307	157
Ethane	—	—	—	—	—	—	—
Propane	9,752	15,129	16	3,794	8,753	37,444	112
Normal Butane	458	5,477	30	226	6,144	12,335	37
Isobutane	198	2,140	—	22	116	2,476	7
Natural Gasoline	—	49	2	1	—	52	0
Refinery Olefins	2,836	2,176	51	—	—	5,063	15
Ethylene	—	—	—	—	—	—	—
Propylene	2,836	1,355	—	—	—	4,191	13
Normal Butylene	—	821	51	—	—	872	3
Isobutylene	—	—	—	—	—	—	—
Other Liquids	162,520	5,575	157,871	979	39,933	366,878	1,098
Hydrogen/Biofuels/Other Hydrocarbons	2,710	962	1,012	102	7,680	12,466	37
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	2,710	962	936	102	7,680	12,390	37
Fuel Ethanol	444	—	—	7	1,194	1,645	5
Biodiesel	2,266	962	886	95	890	5,099	15
Renewable Diesel Fuel	—	—	—	—	5,584	5,584	17
Other Biofuels ³	—	—	50	—	12	62	0
Other Hydrocarbons	—	—	76	—	—	76	0
Unfinished Oils ¹	12,930	—	140,873	345	20,482	174,630	523
Naphthas and Lighter	3,886	—	90	—	199	4,175	13
Kerosene and Lighter Gas Oils	—	—	157	46	—	203	1
Heavy Gas Oils	9,044	—	73,848	299	20,081	103,272	309
Residuum	—	—	66,778	—	202	66,980	201
Motor Gasoline Blend.Comp. (MGBC)	146,880	4,613	15,986	532	11,771	179,782	538
Reformulated - RBOB	50,005	—	417	—	1,615	52,037	156
Conventional	96,875	4,613	15,569	532	10,156	127,745	382
CBOB	14,232	1,305	—	—	878	16,415	49
GTAB	26,484	—	341	—	—	26,825	80
Other	56,159	3,308	15,228	532	9,278	84,505	253
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	121,457	14,381	68,827	2,789	50,367	257,821	772
Finished Motor Gasoline	25,101	—	179	20	8,213	33,513	100
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	25,101	—	179	20	8,213	33,513	100
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	25,101	—	179	20	8,213	33,513	100
Finished Aviation Gasoline	143	46	98	5	22	314	1
Kerosene-Type Jet Fuel	10,275	34	1	311	29,378	39,999	120
Bonded Aircraft Fuel	1,204	—	—	—	5,439	6,643	20
Other	9,071	34	1	311	23,939	33,356	100
Kerosene	—	—	—	—	18	18	0
Distillate Fuel Oil	49,271	3,156	271	1,596	7,772	62,066	186
15 ppm sulfur and under	49,135	2,970	136	1,593	6,321	60,155	180
Bonded	1	50	—	—	—	51	0
Other	49,134	2,920	136	1,593	6,321	60,104	180
Greater than 15 ppm to 500 ppm sulfur	74	52	25	—	1,260	1,411	4
Bonded	—	—	—	—	—	—	—
Other	74	52	25	—	1,260	1,411	4
Greater than 500 ppm to 2000 ppm sulfur	62	134	110	3	1	310	1
Bonded	—	—	—	—	—	—	—
Other	62	134	110	3	1	310	1
Greater than 2000 ppm	—	—	—	—	190	190	1
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	190	190	1
Residual Fuel Oil	22,623	1,305	46,126	—	3,216	73,270	219
Less than 0.31 percent sulfur	1,608	—	880	—	—	2,488	7
0.31 to 1.00 percent sulfur	7,418	105	2,021	—	1,823	11,367	34
Greater than 1.00 percent sulfur	13,597	1,200	43,225	—	1,393	59,415	178
Petrochemical Feedstocks	539	1,625	2,408	—	349	4,921	15
Naphtha for Petro. Feed. Use	528	958	2,036	—	349	3,871	12
Other Oils for Petro. Feed. Use	11	667	372	—	—	1,050	3
Special Naphthas	120	81	4,190	—	—	4,391	13
Lubricants	1,422	2,375	12,178	—	292	16,267	49
Waxes	1,065	146	377	—	356	1,944	6
Petroleum Coke (Marketable)	12	242	2,940	—	—	3,194	10
Asphalt and Road Oil	10,886	5,371	59	846	751	17,913	54
Miscellaneous Products	—	—	—	11	—	11	0
Total	502,390	920,261	756,563	102,280	506,309	2,787,803	8,347

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	31,647	237	—	7,156	—	—	—	—	1,106	1,106
Algeria	2,444	—	—	1,287	—	—	—	—	131	131
Angola	950	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	7,945	—	—	3,272	—	—	—	—	—	—
Kuwait	1,166	—	—	—	—	—	—	—	—	—
Libya	2,285	—	—	—	—	—	—	—	—	—
Nigeria	3,649	—	—	—	—	—	—	—	268	268
Saudi Arabia	13,208	—	—	2,187	—	—	—	—	707	707
United Arab Emirates	—	—	—	410	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	155,645	4,991	522	8,657	—	2,974	2,974	4,341	8,636	12,977
Argentina	3,027	—	—	89	—	—	—	—	292	292
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	313	313	305	602	907
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	382	—	—	—	3	58	61
Brazil	5,526	—	—	—	—	—	—	—	42	42
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	112,662	4,940	522	551	—	423	423	2,056	1,433	3,489
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	6,160	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	3	5	8
Ecuador	4,773	—	—	1,145	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	593	593
France	—	—	—	—	—	149	149	—	652	652
Germany	—	—	—	195	—	56	56	17	33	50
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	161	—	1	1	161	771	932
Korea, South	—	—	—	50	—	240	240	—	343	343
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	219	219	53	26	79
Malaysia	—	—	—	1,054	—	—	—	—	—	—
Mexico	14,706	—	—	2,580	—	—	—	—	251	251
Netherlands	—	—	—	500	—	379	379	324	450	774
Norway	—	—	—	—	—	530	530	352	108	460
Oman	—	—	—	185	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	435	—	360	360	92	1,206	1,298
Sweden	—	—	—	88	—	—	—	—	307	307
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	1,537	—	—	—	—	—	—	—	—	—
United Kingdom	1,623	—	—	673	—	147	147	975	73	1,048
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	5,631	51	0	569	—	157	157	0	1,391	1,391
Total	187,292	5,228	522	15,813	—	2,974	2,974	4,341	9,742	14,083
Persian Gulf⁴	22,319	—	—	5,869	—	—	—	—	707	707

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	22	—	—	—	22	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	500	903	692	—	6,790	16	1	—	6,807	—	21
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	29	—	—	—	29	—	—
Brazil	500	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	344	—	—	3,687	16	1	—	3,704	—	3
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	309	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	151	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	980	—	—	—	980	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	544	—	—	—	544	—	18
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	721	—	—	—	721	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	692	—	335	0	0	—	335	—	0
Total	500	903	692	—	6,812	16	1	—	6,829	—	21
Persian Gulf⁴	—	—	—	—	743	—	—	—	743	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	698	—	—	—	614	614	—	—
Algeria	—	121	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	174	174	—	—
Kuwait	—	577	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	440	440	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	3,613	130	—	2,190	4,693	6,883	228	89
Argentina	—	—	—	—	396	—	396	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	116	116	—	—
Belgium	—	—	—	—	435	—	435	—	—
Brazil	—	—	—	—	—	1,063	1,063	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	202	6	—	85	396	481	81	58
Chad	—	—	—	—	—	—	—	—	—
China	—	309	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	532	532	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	1	—	—	340	39	379	52	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	2,763	124	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	126	126	—	—
Mexico	—	—	—	—	—	2,133	2,133	15	31
Netherlands	—	—	—	—	—	234	234	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	171	32	203	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	4	4	4	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	338	0	—	763	18	781	76	0
Total	—	4,311	130	—	2,190	5,307	7,497	228	89
Persian Gulf¹	—	577	—	—	—	730	730	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	35	—	9,868	41,515	1,055	329	1,384
Algeria	—	—	—	—	—	1,539	3,983	81	51	133
Angola	—	—	—	—	—	—	950	32	—	32
Congo (Brazzaville)	—	—	—	—	—	237	237	—	8	8
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	3,446	11,391	265	115	380
Kuwait	—	—	—	—	—	599	1,765	39	20	59
Libya	—	—	—	—	—	—	2,285	76	—	76
Nigeria	—	—	—	—	—	268	3,917	122	9	131
Saudi Arabia	—	—	—	35	—	3,369	16,577	440	112	553
United Arab Emirates	—	—	—	—	—	410	410	—	14	14
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	125	24	1,400	932	1	52,469	208,114	5,188	1,749	6,937
Argentina	—	—	—	5	—	782	3,809	101	26	127
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,220	1,220	—	41	41
Bahrain	—	—	—	22	—	138	138	—	5	5
Belgium	—	—	—	2	—	1,008	1,008	—	34	34
Brazil	—	—	—	—	—	1,605	7,131	184	54	238
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	83	24	1,246	292	1	16,450	129,112	3,755	548	4,304
Chad	—	—	—	—	—	—	—	—	—	—
China	2	—	—	—	—	311	311	—	10	10
Colombia	—	—	—	—	—	532	6,692	205	18	223
Denmark	—	—	—	—	—	8	8	—	0	0
Ecuador	—	—	—	—	—	1,145	5,918	159	38	197
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	593	593	—	20	20
France	—	—	—	12	—	813	813	—	27	27
Germany	—	—	—	6	—	1,048	1,048	—	35	35
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	1	1	—	0	0
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	16	—	1,261	1,261	—	42	42
Korea, South	—	—	—	1	—	4,501	4,501	—	150	150
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	298	298	—	10	10
Malaysia	7	—	—	—	—	1,187	1,187	—	40	40
Mexico	—	—	—	—	—	5,010	19,716	490	167	657
Netherlands	—	—	—	116	—	2,565	2,565	—	86	86
Norway	—	—	—	—	—	990	990	—	33	33
Oman	—	—	—	—	—	679	679	—	23	23
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	370	—	1,091	1,091	—	36	36
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	154	—	—	2,247	2,247	—	75	75
Sweden	—	—	—	1	—	599	599	—	20	20
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	1,537	51	—	51
United Kingdom	12	—	—	52	—	1,940	3,563	54	65	119
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	21	0	0	36	0	4,447	10,078	189	146	334
Total	125	24	1,400	967	1	62,337	249,629	6,243	2,078	8,321
Persian Gulf⁴	—	—	—	427	—	9,053	31,372	744	302	1,046

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	324,401	1,682	—	64,109	—	722	722	1,380	11,357	12,737
Algeria	5,672	506	—	12,355	—	—	—	18	295	313
Angola	15,475	16	—	190	—	18	18	—	972	972
Congo (Brazzaville)	1,897	—	—	7	—	—	—	—	—	—
Equatorial Guinea	—	813	—	—	—	—	—	—	—	—
Gabon	708	—	—	—	—	—	—	—	—	—
Iran	507	—	—	—	—	—	—	—	—	—
Iraq	80,600	—	—	22,180	—	—	—	—	—	—
Kuwait	8,230	—	—	2,311	—	—	—	—	—	17
Libya	25,818	—	—	46	—	—	—	—	—	—
Nigeria	30,300	110	—	717	—	—	—	—	2,499	2,499
Saudi Arabia	150,806	—	—	19,840	—	704	704	1,063	7,370	8,433
United Arab Emirates	4,388	—	—	6,463	—	—	—	282	221	503
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,781,333	50,625	5,063	110,521	—	32,791	32,791	50,657	116,388	167,045
Argentina	20,919	55	—	235	—	30	30	—	2,269	2,269
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	700	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	3,487	3,487	305	3,208	3,513
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,232	—	3,199	3,199	727	1,538	2,265
Brazil	48,775	—	—	4,012	—	—	—	—	2,421	2,421
Brunei	—	—	—	—	—	—	—	—	287	287
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	1,275,322	50,012	5,012	8,027	—	4,749	4,749	21,644	16,391	38,035
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	74,789	—	—	727	—	—	—	—	14	14
Denmark	—	—	—	—	—	1	1	13	173	186
Ecuador	47,637	—	—	7,104	—	—	—	—	—	—
Egypt	—	—	—	1,366	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	100	—	41	41	—	5,461	5,461
France	—	—	—	1,643	—	2,076	2,076	1,179	3,429	4,608
Germany	—	2	—	278	—	390	390	17	728	745
Guatemala	868	—	—	—	—	—	—	—	—	—
India	—	—	—	1,444	—	400	400	677	18,920	19,597
Indonesia	1,184	—	—	—	—	—	—	—	—	—
Italy	—	—	—	2,677	—	1,857	1,857	325	7,445	7,770
Korea, South	—	7	—	50	—	4,603	4,603	—	5,016	5,016
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	113	—	1,578	1,578	53	752	805
Malaysia	—	—	—	5,832	—	—	—	—	621	621
Mexico	214,575	—	25	24,528	—	—	—	—	1,572	1,572
Netherlands	—	—	—	2,944	—	3,352	3,352	9,827	5,904	15,731
Norway	6,089	196	—	—	—	1,617	1,617	2,147	2,763	4,910
Oman	—	—	—	483	—	—	—	—	308	308
Portugal	—	—	—	—	—	348	348	3	7,062	7,065
Qatar	—	—	—	566	—	8	8	8	12	20
Russia	7,390	—	—	35,999	—	331	331	—	2,302	2,302
Spain	—	—	—	1,276	—	1,451	1,451	420	9,494	9,914
Sweden	—	—	—	88	—	239	239	11	1,901	1,912
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	14,068	213	—	—	—	39	39	—	—	—
United Kingdom	13,481	—	—	1,351	—	1,971	1,971	12,704	4,836	17,540
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	55,536	140	26	8,446	—	1,024	1,024	597	11,561	12,158
Total	2,105,734	52,307	5,063	174,630	—	33,513	33,513	52,037	127,745	179,782
Persian Gulf⁴	244,531	—	—	51,360	—	712	712	1,370	7,603	8,973

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	10	—	3,132	—	—	—	3,132	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	10	—	48	—	—	—	48	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,645	5,099	5,574	62	57,023	1,411	310	190	58,934	18	314
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	805	—	62	—	867	—	—
Brazil	1,638	—	—	—	—	25	—	—	25	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	7	2,675	—	—	42,667	126	138	—	42,931	—	69
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	717	—	—	—	717	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	49
Finland	—	—	—	50	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	1,385	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	268	—	—	—	—	—	—	—	—	—
Korea, South	—	182	—	—	2,053	1,260	—	—	3,313	18	13
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	1	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	94	—	3,394	—	—	—	3,394	—	183
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,725	—	—	—	3,725	—	—
Russia	—	—	—	—	2,157	—	110	—	2,267	—	—
Spain	—	490	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	5,480	11	734	0	0	0	734	0	0
Total	1,645	5,099	5,584	62	60,155	1,411	310	190	62,066	18	314
Persian Gulf⁴	—	—	10	—	6,212	—	—	—	6,212	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	3,664	28	1,229	62	3,171	4,462	70	—
Algeria	—	121	—	1,229	—	5	1,234	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	783	783	—	—
Kuwait	—	2,872	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	28	—	—	2,349	2,349	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	36,335	4,363	1,259	11,305	56,244	68,808	3,801	1,050
Argentina	—	—	—	—	396	1	397	—	113
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	829	861	—	—
Bahrain	—	—	—	—	—	251	251	—	—
Belgium	—	14	—	—	983	684	1,667	—	—
Brazil	—	—	—	—	92	6,514	6,606	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	3,426	1,129	371	1,013	4,689	6,073	991	780
Chad	—	—	—	—	—	—	—	—	—
China	—	1,777	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	4,780	5,005	—	—
Denmark	—	—	—	—	384	—	384	—	—
Ecuador	—	—	—	—	100	1,068	1,168	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	116
Germany	—	1	22	145	804	53	1,002	52	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	1,319	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	157	157	—	—
Korea, South	—	20,709	2,898	—	—	—	—	322	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	663	663	—	—
Mexico	—	10	37	—	616	28,562	29,178	984	31
Netherlands	—	—	33	—	533	1,234	1,767	8	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	9	—
Russia	—	—	—	—	1,097	4,388	5,485	—	—
Spain	—	—	38	—	683	8	691	25	—
Sweden	—	—	—	—	396	32	428	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	419	15	434	101	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	8,637	206	743	3,144	1,095	4,982	1,240	0
Total	—	39,999	4,391	2,488	11,367	59,415	73,270	3,871	1,050
Persian Gulf¹	—	3,985	28	—	—	3,387	3,387	9	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	2,087	—	92,858	417,259	971	278	1,249
Algeria	—	—	—	—	—	14,529	20,201	17	44	60
Angola	—	—	—	—	—	1,266	16,741	46	4	50
Congo (Brazzaville)	—	—	—	—	—	336	2,233	6	1	7
Equatorial Guinea	—	—	—	—	—	813	813	—	2	2
Gabon	—	—	—	—	—	—	708	2	—	2
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	22,963	103,563	241	69	310
Kuwait	—	155	—	—	—	5,377	13,607	25	16	41
Libya	—	—	—	—	—	46	25,864	77	0	77
Nigeria	—	—	—	—	—	3,971	34,271	91	12	103
Saudi Arabia	—	—	—	64	—	34,231	185,037	452	102	554
United Arab Emirates	—	—	—	2,023	—	9,326	13,714	13	28	41
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,944	3,039	17,913	14,180	11	589,211	2,370,544	5,333	1,764	7,097
Argentina	—	824	—	49	—	3,972	24,891	63	12	75
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	2	—	2
Bahamas	—	—	—	—	—	7,861	7,861	—	24	24
Bahrain	—	—	—	644	—	895	895	—	3	3
Belgium	—	—	—	33	—	9,376	9,376	—	28	28
Brazil	—	1,302	—	—	—	16,057	64,832	146	48	194
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	1	1	—	0	0
Canada	1,043	238	16,377	3,201	11	184,786	1,460,108	3,818	553	4,372
Chad	—	—	—	—	—	—	—	—	—	—
China	279	—	—	—	—	2,087	2,087	—	6	6
Colombia	—	112	230	—	—	6,805	81,594	224	20	244
Denmark	—	—	—	23	—	594	594	—	2	2
Ecuador	—	—	—	—	—	8,462	56,099	143	25	168
Egypt	22	—	—	—	—	1,415	1,415	—	4	4
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	5,652	5,652	—	17	17
France	—	—	—	123	—	8,737	8,737	—	26	26
Germany	—	139	—	138	—	4,174	4,174	—	12	12
Guatemala	—	—	—	—	—	—	868	3	—	3
India	—	—	—	8	—	22,768	22,768	—	68	68
Indonesia	—	—	—	1,153	—	1,153	2,337	4	3	7
Italy	—	—	98	165	—	12,992	12,992	—	39	39
Korea, South	7	—	—	3,777	—	40,915	40,915	—	123	123
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	3,615	3,615	—	11	11
Malaysia	176	—	—	—	—	7,293	7,293	—	22	22
Mexico	4	—	—	—	—	56,369	270,944	642	169	811
Netherlands	—	—	—	733	—	28,239	28,239	—	85	85
Norway	—	—	—	—	—	7,084	13,173	18	21	39
Oman	—	133	—	65	—	1,483	1,483	—	4	4
Portugal	—	—	—	—	—	7,669	7,669	—	23	23
Qatar	—	—	—	3,819	—	8,589	8,589	—	26	26
Russia	—	—	—	5	—	46,389	53,779	22	139	161
Spain	11	202	591	—	—	14,689	14,689	—	44	44
Sweden	—	4	—	6	—	2,677	2,677	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	252	14,320	42	1	43
United Kingdom	74	27	—	52	—	21,560	35,041	40	65	105
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	328	58	617	186	0	44,265	99,801	166	132	297
Total	1,944	3,194	17,913	16,267	11	682,069	2,787,803	6,305	2,042	8,347
Persian Gulf⁴	—	155	—	6,550	—	81,381	325,912	732	244	976

— = Not Applicable.
 — = No Data Reported.
¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
² Includes crude oil imported for storage in the Strategic Petroleum Reserve.
³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
 Note: Totals may not equal sum of components due to independent rounding.
 Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	11,613	237	-	-	-	-	-	-	1,106	1,106
Algeria	2,444	-	-	-	-	-	-	-	131	131
Angola	950	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,241	-	-	-	-	-	-	-	-	-
Nigeria	3,649	-	-	-	-	-	-	-	268	268
Saudi Arabia	3,329	-	-	-	-	-	-	-	707	707
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,073	891	172	1,153	-	2,453	2,453	4,341	7,181	11,522
Argentina	494	-	-	89	-	-	-	-	277	277
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	313	313	305	602	907
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	3	58	61
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,386	891	172	-	-	299	299	2,056	741	2,797
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	3	5	8
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	593	593
France	-	-	-	-	-	149	149	-	652	652
Germany	-	-	-	4	-	56	56	17	33	50
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1	1	161	771	932
Korea, South	-	-	-	50	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	219	219	53	26	79
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	979	-	-	-	-	-	-	-	251	251
Netherlands	-	-	-	127	-	379	379	324	414	738
Norway	-	-	-	-	-	530	530	352	108	460
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	102	-	360	360	92	1,136	1,228
Sweden	-	-	-	-	-	-	-	-	307	307
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	478	-	-	-	-	-	-	-	-	-
United Kingdom	1,223	-	-	500	-	147	147	975	73	1,048
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,513	0	0	281	-	0	0	0	1,134	1,134
Total	19,686	1,128	172	1,153	-	2,453	2,453	4,341	8,287	12,628
Persian Gulf⁴	3,329	-	-	-	-	-	-	-	707	707

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	22	—	—	—	22	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	251	495	—	—	5,885	13	—	—	5,898	—	—
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	29	—	—	—	29	—	—
Brazil	251	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	117	—	—	2,834	13	—	—	2,847	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	200	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	79	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	928	—	—	—	928	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	544	—	—	—	544	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	721	—	—	—	721	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	335	0	—	—	335	—	—
Total	251	495	—	—	5,907	13	—	—	5,920	—	—
Persian Gulf⁴	—	—	—	—	743	—	—	—	743	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	698	—	—	—	584	584	—	—
Algeria	—	121	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	144	144	—	—
Kuwait	—	577	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	440	440	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	1,035	3	—	2,105	794	2,899	44	—
Argentina	—	—	—	—	396	—	396	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	116	116	—	—
Belgium	—	—	—	—	435	—	435	—	—
Brazil	—	—	—	—	—	51	51	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	167	3	—	—	16	16	2	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	418	418	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	340	—	340	38	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	530	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	176	176	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	171	—	171	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	4	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	338	0	—	763	17	780	0	—
Total	—	1,733	3	—	2,105	1,378	3,483	44	—
Persian Gulf¹	—	577	—	—	—	700	700	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	2,647	14,260	387	88	475
Algeria	—	—	—	—	—	252	2,696	81	8	90
Angola	—	—	—	—	—	—	950	32	—	32
Congo (Brazzaville)	—	—	—	—	—	237	237	—	8	8
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	144	144	—	5	5
Kuwait	—	—	—	—	—	599	599	—	20	20
Libya	—	—	—	—	—	—	1,241	41	—	41
Nigeria	—	—	—	—	—	268	3,917	122	9	131
Saudi Arabia	—	—	—	—	—	1,147	4,476	111	38	149
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	78	—	718	115	—	27,727	35,800	269	924	1,193
Argentina	—	—	—	—	—	762	1,256	16	25	42
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,220	1,220	—	41	41
Bahrain	—	—	—	—	—	116	116	—	4	4
Belgium	—	—	—	—	—	624	624	—	21	21
Brazil	—	—	—	—	—	302	302	—	10	10
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	74	—	635	67	—	8,087	11,473	113	270	382
Chad	—	—	—	—	—	—	—	—	—	—
China	2	—	—	—	—	2	2	—	0	0
Colombia	—	—	—	—	—	418	418	—	14	14
Denmark	—	—	—	—	—	8	8	—	0	0
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	593	593	—	20	20
France	—	—	—	6	—	807	807	—	27	27
Germany	—	—	—	1	—	689	689	—	23	23
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	4	—	1,016	1,016	—	34	34
Korea, South	—	—	—	—	—	1,508	1,508	—	50	50
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	298	298	—	10	10
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	427	1,406	33	14	47
Netherlands	—	—	—	35	—	1,823	1,823	—	61	61
Norway	—	—	—	—	—	990	990	—	33	33
Oman	—	—	—	—	—	494	494	—	16	16
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	721	721	—	24	24
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	83	—	—	1,773	1,773	—	59	59
Sweden	—	—	—	1	—	479	479	—	16	16
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	478	16	—	16
United Kingdom	—	—	—	—	—	1,699	2,922	41	57	97
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	2	—	0	1	—	2,871	4,384	50	95	146
Total	78	—	718	115	—	30,374	50,060	656	1,012	1,669
Persian Gulf⁴	—	—	—	—	—	2,727	6,056	111	91	202

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	82,518	2,116	350	-	-	-	-	-	662	662
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	82,518	2,116	350	-	-	-	-	-	662	662
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	82,518	2,116	350	-	-	-	-	-	662	662
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	143	—	—	417	3	1	—	421	—	2
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	143	—	—	417	3	1	—	421	—	2
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	0	0	—	0	—	0
Total	—	143	—	—	417	3	1	—	421	—	2
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	3	-	7	108	115	79	58
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	3	-	7	108	115	79	58
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	0	0	0	0	0
Total	-	-	3	-	7	108	115	79	58
Persian Gulf¹	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	9	24	450	223	—	4,655	87,173	2,751	155	2,906
Argentina	—	—	—	1	—	1	1	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	9	24	450	222	—	4,654	87,172	2,751	155	2,906
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	0	0	0	0	0
Total	9	24	450	223	—	4,655	87,173	2,751	155	2,906
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	6,375	-	-	6,460	-	-	-	-	-	-
Algeria	-	-	-	591	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,413	-	-	3,272	-	-	-	-	-	-
Kuwait	417	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	4,545	-	-	2,187	-	-	-	-	-	-
United Arab Emirates	-	-	-	410	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	29,773	-	-	6,673	-	-	-	-	238	238
Argentina	-	-	-	-	-	-	-	-	15	15
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	509	-	-	-	-	-	-	-	42	42
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	10,377	-	-	492	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	5,612	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	1,145	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	131	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1,054	-	-	-	-	-	-
Mexico	12,324	-	-	2,580	-	-	-	-	-	-
Netherlands	-	-	-	373	-	-	-	-	36	36
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	185	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	333	-	-	-	-	70	70
Sweden	-	-	-	88	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	549	-	-	-	-	-	-	-	-	-
United Kingdom	400	-	-	13	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2	-	-	279	-	-	-	-	75	75
Total	36,148	-	-	13,133	-	-	-	-	238	238
Persian Gulf⁴	6,375	-	-	5,869	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	181	-	-	-	-	-	-	-	-	18
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	109	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	72	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	18
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-	-	0
Total	-	181	-	-	-	-	-	-	-	-	18
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	30	30	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	30	30	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	1	124	—	—	3,640	3,640	36	31
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	1,012	1,012	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	121	121	—	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	114	114	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	1	—	—	—	39	39	14	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	124	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	126	126	—	—
Mexico	—	—	—	—	—	1,957	1,957	15	31
Netherlands	—	—	—	—	—	234	234	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	32	32	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	4	4	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	—	1	1	7	0
Total	—	1	124	—	—	3,670	3,670	36	31
Persian Gulf¹	—	—	—	—	—	30	30	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	35	—	6,525	12,900	213	218	430
Algeria	—	—	—	—	—	591	591	—	20	20
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	3,302	4,715	47	110	157
Kuwait	—	—	—	—	—	—	417	14	—	14
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	35	—	2,222	6,767	152	74	226
United Arab Emirates	—	—	—	—	—	410	410	—	14	14
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	27	—	—	591	—	11,560	41,333	992	385	1,378
Argentina	—	—	—	4	—	19	19	—	1	1
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	22	—	22	22	—	1	1
Belgium	—	—	—	2	—	2	2	—	0	0
Brazil	—	—	—	—	—	1,054	1,563	17	35	52
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	613	10,990	346	20	366
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	114	5,726	187	4	191
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	1,145	1,145	—	38	38
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	6	—	6	6	—	0	0
Germany	—	—	—	5	—	299	299	—	10	10
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	1	1	—	0	0
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	12	—	84	84	—	3	3
Korea, South	—	—	—	1	—	125	125	—	4	4
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	7	—	—	—	—	1,187	1,187	—	40	40
Mexico	—	—	—	—	—	4,583	16,907	411	153	564
Netherlands	—	—	—	81	—	742	742	—	25	25
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	185	185	—	6	6
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	370	—	370	370	—	12	12
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	403	403	—	13	13
Sweden	—	—	—	—	—	120	120	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	549	18	—	18
United Kingdom	12	—	—	52	—	81	481	13	3	16
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	8	—	—	35	—	405	407	0	13	14
Total	27	—	—	626	—	18,085	54,233	1,205	603	1,808
Persian Gulf⁴	—	—	—	427	—	6,326	12,701	213	211	423

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,212	471	-	-	-	-	-	-	8	8
Canada	8,212	471	-	-	-	-	-	-	8	8
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	8,212	471	-	-	-	-	-	-	8	8
	PAD District 5									
OPEC	13,659	-	-	696	-	-	-	-	-	-
Algeria	-	-	-	696	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	6,532	-	-	-	-	-	-	-	-	-
Kuwait	749	-	-	-	-	-	-	-	-	-
Libya	1,044	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	5,334	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	27,069	1,513	-	831	-	521	521	-	547	547
Argentina	2,533	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	5,017	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	8,169	1,462	-	59	-	124	124	-	22	22
China	-	-	-	-	-	-	-	-	-	-
Colombia	548	-	-	-	-	-	-	-	-	-
Ecuador	4,773	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	60	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	157	157	-	182	182
Korea, South	-	-	-	-	-	240	240	-	343	343
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,403	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	299	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	160	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	4,327	51	-	552	-	0	0	-	0	0
Total	40,728	1,513	-	1,527	-	521	521	-	547	547
Persian Gulf ⁴	12,615	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
PAD District 4												
	OPEC	-	-	-	-	-	-	-	-	-	-	
	Algeria	-	-	-	-	-	-	-	-	-	-	
	Angola	-	-	-	-	-	-	-	-	-	-	
	Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	
	Iran	-	-	-	-	-	-	-	-	-	-	
	Iraq	-	-	-	-	-	-	-	-	-	-	
	Kuwait	-	-	-	-	-	-	-	-	-	-	
	Libya	-	-	-	-	-	-	-	-	-	-	
	Nigeria	-	-	-	-	-	-	-	-	-	-	
	Saudi Arabia	-	-	-	-	-	-	-	-	-	-	
	United Arab Emirates	-	-	-	-	-	-	-	-	-	-	
	Venezuela	-	-	-	-	-	-	-	-	-	-	
	Non-OPEC	-	7	-	-	48	-	-	-	48	-	
	Canada	-	7	-	-	48	-	-	-	48	-	
	Ecuador	-	-	-	-	-	-	-	-	-	-	
	Qatar	-	-	-	-	-	-	-	-	-	-	
	Other	-	0	-	-	0	-	-	-	0	-	
	Total	-	7	-	-	48	-	-	-	48	-	
	PAD District 5											
		OPEC	-	-	-	-	-	-	-	-	-	-
		Algeria	-	-	-	-	-	-	-	-	-	-
		Angola	-	-	-	-	-	-	-	-	-	-
		Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
		Iran	-	-	-	-	-	-	-	-	-	-
		Iraq	-	-	-	-	-	-	-	-	-	-
		Kuwait	-	-	-	-	-	-	-	-	-	-
		Libya	-	-	-	-	-	-	-	-	-	-
		Nigeria	-	-	-	-	-	-	-	-	-	-
		Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-	-	-	-	
Venezuela		-	-	-	-	-	-	-	-	-	-	
Non-OPEC		249	77	692	-	440	-	-	-	440	-	
Argentina		-	-	-	-	-	-	-	-	-	-	
Aruba		-	-	-	-	-	-	-	-	-	-	
Australia		-	-	-	-	-	-	-	-	-	-	
Brazil		249	-	-	-	-	-	-	-	-	-	
Brunei		-	-	-	-	-	-	-	-	-	-	
Canada		-	77	-	-	388	-	-	-	388	-	
China		-	-	-	-	-	-	-	-	-	-	
Colombia		-	-	-	-	-	-	-	-	-	-	
Ecuador		-	-	-	-	-	-	-	-	-	-	
Finland		-	-	-	-	-	-	-	-	-	-	
Germany		-	-	-	-	-	-	-	-	-	-	
Indonesia		-	-	-	-	-	-	-	-	-	-	
Japan		-	-	-	-	-	-	-	-	-	-	
Korea, South		-	-	-	-	52	-	-	-	52	-	
Malaysia		-	-	-	-	-	-	-	-	-	-	
Mexico		-	-	-	-	-	-	-	-	-	-	
Netherlands	-	-	-	-	-	-	-	-	-	-		
Oman	-	-	-	-	-	-	-	-	-	-		
Papua New Guinea	-	-	-	-	-	-	-	-	-	-		
Peru	-	-	-	-	-	-	-	-	-	-		
Qatar	-	-	-	-	-	-	-	-	-	-		
Singapore	-	-	-	-	-	-	-	-	-	-		
Sweden	-	-	-	-	-	-	-	-	-	-		
Taiwan	-	-	-	-	-	-	-	-	-	-		
United Kingdom	-	-	-	-	-	-	-	-	-	-		
Vietnam	-	-	-	-	-	-	-	-	-	-		
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-		
Other	0	0	692	-	0	-	-	-	0	-		
Total	249	77	692	-	440	-	-	-	440	-		
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2,577	-	-	78	151	229	69	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	35	-	-	78	151	229	-	-
China	-	309	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-
Korea, South	-	2,233	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	69	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	0	-
Total	-	2,577	-	-	78	151	229	69	-
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
	PAD District 4									
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	94	—	1	629	8,841	274	21	295
Canada	—	—	94	—	1	629	8,841	274	21	295
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	0	0	0	0	0
Total	—	—	94	—	1	629	8,841	274	21	295
	PAD District 5									
OPEC	—	—	—	—	—	696	14,355	455	23	479
Algeria	—	—	—	—	—	696	696	—	23	23
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	6,532	218	—	218
Kuwait	—	—	—	—	—	—	749	25	—	25
Libya	—	—	—	—	—	—	1,044	35	—	35
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	5,334	178	—	178
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	11	—	138	3	—	7,898	34,967	902	263	1,166
Argentina	—	—	—	—	—	—	2,533	84	—	84
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	249	5,266	167	8	176
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	67	3	—	2,467	10,636	272	82	355
China	—	—	—	—	—	309	309	—	10	10
Colombia	—	—	—	—	—	—	548	18	—	18
Ecuador	—	—	—	—	—	—	4,773	159	—	159
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	60	60	—	2	2
Indonesia	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	339	339	—	11	11
Korea, South	—	—	—	—	—	2,868	2,868	—	96	96
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	1,403	47	—	47
Netherlands	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	299	10	—	10
Qatar	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	692	692	—	23	23
Sweden	—	—	—	—	—	—	—	—	—	—
Taiwan	11	—	—	—	—	80	80	—	3	3
United Kingdom	—	—	—	—	—	160	160	—	5	5
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	71	0	—	674	5,001	145	23	167
Total	11	—	138	3	—	8,594	49,322	1,358	286	1,644
Persian Gulf ⁴	—	—	—	—	—	—	12,615	421	—	421

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	98,514	1,252	—	1,739	—	344	344	829	10,571	11,400
Algeria	5,672	506	—	—	—	—	—	18	295	313
Angola	12,718	—	—	190	—	18	18	—	972	972
Congo (Brazzaville)	932	—	—	7	—	—	—	—	—	—
Equatorial Guinea	—	509	—	—	—	—	—	—	—	—
Gabon	708	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	346	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	18,417	—	—	—	—	—	—	—	—	—
Nigeria	30,300	—	—	717	—	—	—	—	2,499	2,499
Saudi Arabia	29,767	—	—	479	—	326	326	514	6,584	7,098
United Arab Emirates	—	—	—	—	—	—	—	282	221	503
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	106,655	9,156	2,836	11,191	—	24,757	24,757	49,176	86,304	135,480
Argentina	2,459	—	—	235	—	30	30	—	1,542	1,542
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	3,044	3,044	305	2,863	3,168
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	3,199	3,199	727	1,359	2,086
Brazil	—	—	—	—	—	—	—	—	1,958	1,958
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	42,455	8,959	2,836	—	—	3,403	3,403	21,644	10,834	32,478
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	1,493	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	1	1	13	73	86
Ecuador	—	—	—	508	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	100	—	41	41	—	5,084	5,084
France	—	—	—	612	—	1,940	1,940	1,177	3,197	4,374
Germany	—	—	—	4	—	390	390	17	561	578
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	333	—	—	—	623	12,285	12,908
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	203	—	1,857	1,857	233	6,565	6,798
Korea, South	—	—	—	50	—	—	—	—	685	685
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,578	1,578	53	734	787
Malaysia	—	—	—	—	—	—	—	—	437	437
Mexico	19,853	—	—	3,054	—	—	—	—	1,341	1,341
Netherlands	—	—	—	302	—	3,352	3,352	8,827	5,630	14,457
Norway	6,089	196	—	—	—	1,617	1,617	2,147	2,695	4,842
Oman	—	—	—	—	—	—	—	—	308	308
Portugal	—	—	—	—	—	348	348	3	6,782	6,785
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	3,098	—	—	2,793	—	—	—	—	2,153	2,153
Spain	—	—	—	775	—	1,451	1,451	420	8,918	9,338
Sweden	—	—	—	—	—	239	239	11	1,635	1,646
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,939	—	—	—	—	39	39	—	—	—
United Kingdom	4,760	—	—	882	—	1,886	1,886	12,704	3,516	16,220
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	22,801	1	0	1,340	—	342	342	272	5,149	5,421
Total	205,169	10,408	2,836	12,930	—	25,101	25,101	50,005	96,875	146,880
Persian Gulf⁴	29,767	—	—	825	—	326	326	811	6,805	7,616

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	3,132	—	—	—	3,132	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	22	—	—	—	22	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	—	—	48	—	—	—	48	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	444	2,266	—	—	46,003	74	62	—	46,139	—	143
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	99	—	—	805	—	62	—	867	—	—
Brazil	444	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	697	—	—	33,307	74	—	—	33,381	—	9
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	717	—	—	—	717	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	1,091	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	79	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	928	—	—	—	928	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	3,394	—	—	—	3,394	—	134
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	494	—	—	—	494	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,725	—	—	—	3,725	—	—
Russia	—	—	—	—	2,021	—	—	—	2,021	—	—
Spain	—	300	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	335	0	0	—	335	—	0
Total	444	2,266	—	—	49,135	74	62	—	49,271	—	143
Persian Gulf⁴	—	—	—	—	6,212	—	—	—	6,212	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	3,664	—	349	62	1,016	1,427	70	—
Algeria	—	121	—	349	—	5	354	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	144	144	—	—
Kuwait	—	2,872	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	833	833	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	6,611	120	1,259	7,356	12,581	21,196	458	11
Argentina	—	—	—	—	396	1	397	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	324	356	—	—
Bahrain	—	—	—	—	—	251	251	—	—
Belgium	—	—	—	—	983	134	1,117	—	—
Brazil	—	—	—	—	4	381	385	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2,679	120	371	61	1,415	1,847	22	11
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	3,899	4,124	—	—
Denmark	—	—	—	—	384	—	384	—	—
Ecuador	—	—	—	—	100	869	969	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	—
Germany	—	—	—	145	804	14	963	38	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	1,319	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	1,564	—	—	—	—	—	63	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	—	—	616	3,311	3,927	—	—
Netherlands	—	—	—	—	533	456	989	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	—	—
Russia	—	—	—	—	—	882	882	—	—
Spain	—	—	—	—	683	8	691	—	—
Sweden	—	—	—	—	396	—	396	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	29	11	40	4	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	597	0	743	1,749	523	3,015	262	0
Total	—	10,275	120	1,608	7,418	13,597	22,623	528	11
Persian Gulf⁴	—	3,985	—	—	—	1,232	1,232	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	137	—	23,165	121,679	295	69	364
Algeria	—	—	—	—	—	1,294	6,966	17	4	21
Angola	—	—	—	—	—	1,250	13,968	38	4	42
Congo (Brazzaville)	—	—	—	—	—	336	1,268	3	1	4
Equatorial Guinea	—	—	—	—	—	509	509	—	2	2
Gabon	—	—	—	—	—	—	708	2	—	2
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	490	490	—	1	1
Kuwait	—	—	—	—	—	2,909	2,909	—	9	9
Libya	—	—	—	—	—	—	18,417	55	—	55
Nigeria	—	—	—	—	—	3,861	34,161	91	12	102
Saudi Arabia	—	—	—	—	—	11,549	41,316	89	35	124
United Arab Emirates	—	—	—	137	—	967	967	—	3	3
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,065	12	10,886	1,285	—	274,056	380,711	319	821	1,140
Argentina	—	—	—	—	—	2,204	4,663	7	7	14
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	6,568	6,568	—	20	20
Bahrain	—	—	—	19	—	270	270	—	1	1
Belgium	—	—	—	2	—	7,370	7,370	—	22	22
Brazil	—	3	—	—	—	2,790	2,790	—	8	8
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	1	1	—	0	0
Canada	901	—	9,622	777	—	97,742	140,197	127	293	420
Chad	—	—	—	—	—	—	—	—	—	—
China	125	—	—	—	—	126	126	—	0	0
Colombia	—	—	230	—	—	5,071	6,564	4	15	20
Denmark	—	—	—	23	—	494	494	—	1	1
Ecuador	—	—	—	—	—	1,477	1,477	—	4	4
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	5,225	5,225	—	16	16
France	—	—	—	89	—	7,186	7,186	—	22	22
Germany	—	—	—	94	—	3,178	3,178	—	10	10
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	14,560	14,560	—	44	44
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	98	38	—	9,073	9,073	—	27	27
Korea, South	7	—	—	91	—	3,388	3,388	—	10	10
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	2,365	2,365	—	7	7
Malaysia	6	—	—	—	—	443	443	—	1	1
Mexico	—	—	—	—	—	8,332	28,185	59	25	84
Netherlands	—	—	—	123	—	22,751	22,751	—	68	68
Norway	—	—	—	—	—	7,016	13,105	18	21	39
Oman	—	—	—	—	—	802	802	—	2	2
Portugal	—	—	—	—	—	7,389	7,389	—	22	22
Qatar	—	—	—	—	—	4,167	4,167	—	12	12
Russia	—	—	—	5	—	7,854	10,952	9	24	33
Spain	9	—	377	—	—	12,941	12,941	—	39	39
Sweden	—	—	—	6	—	2,287	2,287	—	7	7
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	39	2,978	9	0	9
United Kingdom	—	2	—	—	—	19,034	23,794	14	57	71
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	17	7	559	18	—	11,913	34,714	70	36	105
Total	1,065	12	10,886	1,422	—	297,221	502,390	614	890	1,504
Persian Gulf⁴	—	—	—	156	—	20,352	50,119	89	61	150

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	875,334	22,795	2,176	-	-	-	-	-	4,613	4,613
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	875,334	22,788	2,176	-	-	-	-	-	4,613	4,613
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	7	0	-	-	-	-	-	0	0
Total	875,334	22,795	2,176	-	-	-	-	-	4,613	4,613
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	962	-	-	2,970	52	134	-	3,156	-	46
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	962	-	-	2,970	52	134	-	3,156	-	46
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0
Total	-	962	-	-	2,970	52	134	-	3,156	-	46
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	34	81	—	105	1,200	1,305	958	667
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	34	81	—	105	1,200	1,305	958	667
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	0	0	0	0	0
Total	—	34	81	—	105	1,200	1,305	958	667
Persian Gulf⁴	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	146	242	5,371	2,375	—	44,927	920,261	2,621	135	2,755
Argentina	—	—	—	7	—	7	7	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1	—	1	1	—	0	0
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	142	238	5,371	2,363	—	44,900	920,234	2,621	134	2,755
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	1	—	1	1	—	0	0
Germany	—	—	—	3	—	3	3	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	7	7	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	4	—	—	—	4	4	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	4	0	0	0	—	4	4	0	1	0
Total	146	242	5,371	2,375	—	44,927	920,261	2,621	135	2,755
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	96,073	16	-	50,864	-	-	-	-	-	-
Algeria	-	-	-	2,624	-	-	-	-	-	-
Angola	949	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	19,282	-	-	21,834	-	-	-	-	-	-
Kuwait	6,007	-	-	2,311	-	-	-	-	-	-
Libya	-	-	-	46	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	69,328	-	-	17,586	-	-	-	-	-	-
United Arab Emirates	-	-	-	6,463	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	433,693	32	51	90,009	-	179	179	417	15,569	15,986
Argentina	-	-	-	-	-	-	-	-	727	727
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	46	46
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	673	-	-	-	-	179	179
Brazil	3,470	-	-	4,012	-	-	-	-	463	463
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	177,266	-	-	7,187	-	-	-	-	26	26
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	53,748	-	-	528	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	-	100	100
Ecuador	-	-	-	5,669	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	377	377
France	-	-	-	1,031	-	48	48	-	231	231
Germany	-	-	-	214	-	-	-	-	167	167
Guatemala	868	-	-	-	-	-	-	-	-	-
India	-	-	-	764	-	-	-	-	3,778	3,778
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	2,313	-	-	-	92	441	533
Korea, South	-	-	-	-	-	-	-	-	2,383	2,383
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	113	-	-	-	-	18	18
Malaysia	-	-	-	5,832	-	-	-	-	184	184
Mexico	179,782	-	25	17,672	-	-	-	-	231	231
Netherlands	-	-	-	2,642	-	-	-	-	189	189
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	483	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	280	280
Qatar	-	-	-	566	-	-	-	-	-	-
Russia	-	-	-	31,716	-	46	46	-	149	149
Spain	-	-	-	501	-	-	-	-	442	442
Sweden	-	-	-	88	-	-	-	-	94	94
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	8,042	-	-	-	-	-	-	-	-	-
United Kingdom	8,222	-	-	309	-	85	85	-	392	392
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,295	32	26	6,330	-	0	0	325	4,371	4,696
Total	529,766	48	51	140,873	-	179	179	417	15,569	15,986
Persian Gulf⁴	95,124	-	-	48,760	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	886	—	50	136	25	110	—	271	—	98
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	25	—	—	25	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	213	—	—	—	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	49
Finland	—	—	—	50	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	294	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	189	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	49
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	136	—	110	—	246	—	—
Spain	—	190	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	0	0	0	—	0	—	0
Total	—	886	—	50	136	25	110	—	271	—	98
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	28	880	—	2,120	3,000	—	—
Algeria	—	—	—	880	—	—	880	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	604	604	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	28	—	—	1,516	1,516	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	1	4,162	—	2,021	41,105	43,126	2,036	372
Argentina	—	—	—	—	—	—	—	—	113
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	505	505	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	550	550	—	—
Brazil	—	—	—	—	88	6,133	6,221	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	928	—	282	999	1,281	11	102
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	881	881	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	199	199	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	116
Germany	—	1	22	—	—	39	39	14	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	157	157	—	—
Korea, South	—	—	2,898	—	—	—	—	246	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	663	663	—	—
Mexico	—	—	37	—	—	25,158	25,158	984	31
Netherlands	—	—	33	—	—	778	778	8	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	9	—
Russia	—	—	—	—	400	3,506	3,906	—	—
Spain	—	—	38	—	—	—	—	25	—
Sweden	—	—	—	—	—	32	32	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	390	4	394	97	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	206	0	834	382	1,216	642	0
Total	—	1	4,190	880	2,021	43,225	46,126	2,036	372
Persian Gulf¹	—	—	28	—	—	2,120	2,120	9	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	1,950	—	56,013	152,086	288	168	455
Algeria	—	—	—	—	—	3,504	3,504	—	10	10
Angola	—	—	—	—	—	—	949	3	—	3
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	16	16	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	22,438	41,720	58	67	125
Kuwait	—	155	—	—	—	2,466	8,473	18	7	25
Libya	—	—	—	—	—	46	46	—	0	0
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	64	—	19,194	88,522	208	57	265
United Arab Emirates	—	—	—	1,886	—	8,349	8,349	—	25	25
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	377	2,785	59	10,228	—	170,784	604,477	1,298	511	1,810
Argentina	—	824	—	42	—	1,706	1,706	—	5	5
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	551	551	—	2	2
Bahrain	—	—	—	625	—	625	625	—	2	2
Belgium	—	—	—	30	—	1,432	1,432	—	4	4
Brazil	—	1,299	—	—	—	12,073	15,543	10	36	47
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	1	14	—	9,763	187,029	531	29	560
Chad	—	—	—	—	—	—	—	—	—	—
China	12	—	—	—	—	42	42	—	0	0
Colombia	—	112	—	—	—	1,535	55,283	161	5	166
Denmark	—	—	—	—	—	100	100	—	0	0
Ecuador	—	—	—	—	—	5,868	5,868	—	18	18
Egypt	22	—	—	—	—	1,415	1,415	—	4	4
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	427	427	—	1	1
France	—	—	—	33	—	1,459	1,459	—	4	4
Germany	—	139	—	41	—	933	933	—	3	3
Guatemala	—	—	—	—	—	—	868	3	—	3
India	—	—	—	8	—	4,550	4,550	—	14	14
Indonesia	—	—	—	1,153	—	1,153	1,153	—	3	3
Italy	—	—	—	127	—	3,319	3,319	—	10	10
Korea, South	—	—	—	3,602	—	9,129	9,129	—	27	27
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,250	1,250	—	4	4
Malaysia	169	—	—	—	—	6,848	6,848	—	21	21
Mexico	4	—	—	—	—	44,142	223,924	538	132	670
Netherlands	—	—	—	610	—	4,309	4,309	—	13	13
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	133	—	65	—	681	681	—	2	2
Portugal	—	—	—	—	—	280	280	—	1	1
Qatar	—	—	—	3,659	—	4,234	4,234	—	13	13
Russia	—	—	—	—	—	36,063	36,063	—	108	108
Spain	2	202	—	—	—	1,400	1,400	—	4	4
Sweden	—	—	—	—	—	214	214	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	8,042	24	—	24
United Kingdom	74	25	—	52	—	1,438	9,660	25	4	29
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	94	51	58	167	—	13,509	15,804	6	40	46
Total	377	2,940	59	12,178	—	226,797	756,563	1,586	679	2,265
Persian Gulf⁴	—	155	—	6,234	—	57,306	152,430	285	172	456

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
	PAD District 4									
OPEC	1,830	—	—	262	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	1,830	—	—	262	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	92,639	4,043	—	83	—	20	20	—	532	532
Canada	92,639	4,043	—	83	—	15	15	—	532	532
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	5	5	—	0	0
Total	94,469	4,043	—	345	—	20	20	—	532	532
	PAD District 5									
OPEC	127,984	—	—	11,244	—	378	378	551	786	1,337
Algeria	—	—	—	9,731	—	—	—	—	—	—
Angola	1,808	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	1,930	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	61,318	—	—	—	—	—	—	—	—	—
Kuwait	2,223	—	—	—	—	—	—	2	—	2
Libya	7,401	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	49,881	—	—	1,513	—	378	378	549	786	1,335
United Arab Emirates	4,388	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	273,012	14,599	—	9,238	—	7,835	7,835	1,064	9,370	10,434
Argentina	18,460	55	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	700	—	—	—	—	—	—	—	—	—
Brazil	45,305	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	87,628	14,222	—	757	—	1,331	1,331	—	386	386
China	—	—	—	—	—	—	—	—	—	—
Colombia	19,548	—	—	199	—	—	—	—	—	—
Ecuador	47,637	—	—	927	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	60	—	—	—	—	—	—
Indonesia	1,184	—	—	—	—	—	—	—	—	—
Japan	—	—	—	640	—	474	474	—	1,192	1,192
Korea, South	—	—	—	—	—	4,603	4,603	—	1,948	1,948
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	14,940	—	—	3,802	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	1,000	85	1,085
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	1,390	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	8	8	8	12	20
Singapore	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	172	172
Taiwan	—	—	—	—	—	208	208	—	849	849
United Kingdom	499	—	—	160	—	—	—	—	928	928
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	35,721	322	—	2,693	—	1,211	1,211	56	3,798	3,854
Total	400,996	15,013	—	20,482	—	8,213	8,213	1,615	10,156	11,771
Persian Gulf ⁴	117,810	—	—	1,513	—	386	386	559	798	1,357

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	7	95	—	—	1,593	—	3	—	1,596	—	5
Canada	7	95	—	—	1,593	—	3	—	1,596	—	5
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	0	—	0	—	0	—	0
Total	7	95	—	—	1,593	—	3	—	1,596	—	5
	PAD District 5										
OPEC	—	—	10	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	10	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,194	890	5,574	12	6,321	1,260	1	190	7,772	18	22
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	1,194	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	708	—	—	4,797	—	1	—	4,798	—	9
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	10	399	—	—	—	399	—	—
Korea, South	—	182	—	—	1,125	1,260	—	—	2,385	18	13
Malaysia	—	—	—	1	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	94	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	5,480	1	0	0	0	0	0	0	0
Total	1,194	890	5,584	12	6,321	1,260	1	190	7,772	18	22
Persian Gulf ⁴	—	—	10	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	311	-	-	-	-	-	-	-
Canada	-	311	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	311	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	35	35	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	35	35	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	29,378	-	-	1,823	1,358	3,181	349	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	402	-	-	565	1,075	1,640	-	-
China	-	1,777	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	5,531	-	-	-	-	-	-	-
Korea, South	-	19,145	-	-	-	-	-	13	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	93	93	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	287	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	975	-	-	-	-	-	336	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	1,261	-	-	1,258	190	1,448	0	-
Total	-	29,378	-	-	1,823	1,393	3,216	349	-
Persian Gulf ⁴	-	-	-	-	-	35	35	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2022
(Thousand Barrels) — Continued

Country of Origin								Daily Average		
	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Crude Oil	Products	Total
	PAD District 4									
OPEC	—	—	—	—	—	262	2,092	5	1	6
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	5	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	846	—	11	7,549	100,188	277	23	300
Canada	—	—	846	—	11	7,544	100,183	277	23	300
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	5	5	0	0	0
Total	—	—	846	—	11	7,811	102,280	283	23	306
	PAD District 5									
OPEC	—	—	—	—	—	13,418	141,402	383	40	423
Algeria	—	—	—	—	—	9,731	9,731	—	29	29
Angola	—	—	—	—	—	16	1,824	5	0	5
Congo (Brazzaville)	—	—	—	—	—	—	1,930	6	—	6
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	35	61,353	184	0	184
Kuwait	—	—	—	—	—	2	2,225	7	0	7
Libya	—	—	—	—	—	—	7,401	22	—	22
Nigeria	—	—	—	—	—	110	110	—	0	0
Saudi Arabia	—	—	—	—	—	3,226	53,107	149	10	159
United Arab Emirates	—	—	—	—	—	10	4,398	13	0	13
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	356	—	751	292	—	91,895	364,907	817	275	1,093
Argentina	—	—	—	—	—	55	18,515	55	0	55
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	2	—	2
Brazil	—	—	—	—	—	1,194	46,499	136	4	139
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	537	47	—	24,837	112,465	262	74	337
China	142	—	—	—	—	1,919	1,919	—	6	6
Colombia	—	—	—	—	—	199	19,747	59	1	59
Ecuador	—	—	—	—	—	1,117	48,754	143	3	146
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	60	60	—	0	0
Indonesia	—	—	—	—	—	—	1,184	4	—	4
Japan	56	—	—	1	—	8,303	8,303	—	25	25
Korea, South	—	—	—	84	—	28,391	28,391	—	85	85
Malaysia	1	—	—	—	—	2	2	—	0	0
Mexico	—	—	—	—	—	3,895	18,835	45	12	56
Netherlands	—	—	—	—	—	1,179	1,179	—	4	4
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	1,390	4	—	4
Qatar	—	—	—	160	—	188	188	—	1	1
Singapore	—	—	—	—	—	5,768	5,768	—	17	17
Sweden	—	—	—	—	—	172	172	—	1	1
Taiwan	157	—	—	—	—	2,525	2,525	—	8	8
United Kingdom	—	—	—	—	—	1,088	1,587	1	3	5
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	214	0	—	11,003	46,724	106	31	139
Total	356	—	751	292	—	105,313	506,309	1,201	315	1,516
Persian Gulf ⁴	—	—	—	160	—	3,461	121,271	353	10	363

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, November 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	1,432	2,556	117,276	0	–	121,264	4,042
Hydrocarbon Gas Liquids	6,120	8,138	56,260	9	1,518	72,044	2,401
Natural Gas Liquids	6,120	8,138	56,260	9	1,518	72,044	2,401
Ethane	2,326	2,872	8,483	–	–	13,681	456
Propane	3,068	104	36,470	0	1,086	40,728	1,358
Normal Butane	674	89	11,130	2	402	12,297	410
Isobutane	1	2	104	–	4	111	4
Natural Gasoline	51	5,070	73	7	26	5,227	174
Other Liquids	124	3,283	6,988	1	559	10,955	365
Hydrogen/Biofuels/Other Hydrocarbons	94	1,020	725	–	331	2,170	72
Hydrogen	–	–	–	–	–	–	–
Biofuels	94	1,020	725	–	331	2,170	72
Fuel Ethanol	91	936	652	–	269	1,949	65
Biodiesel	3	84	72	–	61	221	7
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	–	–	–	–	–	–	–
Unfinished Oils	28	2,238	4,491	0	27	6,784	226
Naphthas and Lighter	8	2,227	4,207	0	12	6,454	215
Kerosene and Light Gas Oils	20	11	284	–	16	330	11
Heavy Gas Oils	–	–	–	–	–	–	–
Residuum	–	–	–	–	–	–	–
Motor Gasoline Blend.Comp. (MGBC)	2	25	1,772	1	201	2,001	67
Reformulated	0	–	2	–	2	3	0
Conventional	2	25	1,770	1	199	1,998	67
Aviation Gasoline Blend. Comp.	–	–	–	–	–	–	–
Finished Petroleum Products	1,132	602	82,252	16	8,636	92,638	3,088
Finished Motor Gasoline	39	255	28,146	1	1,088	29,529	984
Reformulated	–	–	–	–	–	–	–
Conventional	39	255	28,146	1	1,088	29,529	984
Finished Aviation Gasoline	–	–	–	–	–	–	–
Kerosene-Type Jet Fuel	17	11	3,696	–	932	4,656	155
Kerosene	2	1	220	–	–	223	7
Distillate Fuel Oil	222	92	32,784	1	2,065	35,164	1,172
15 ppm sulfur and under	10	0	27,526	–	1,917	29,453	982
Greater than 15 ppm to 500 ppm sulfur	211	13	2,367	1	52	2,645	88
Greater than 500 ppm sulfur	1	79	2,891	–	96	3,066	102
Residual Fuel Oil	210	–	2,910	–	1,143	4,263	142
Naphtha for Petro. Feed. Use	–	–	–	–	–	–	–
Other Oils for Petro. Feed. Use	–	–	–	–	–	–	–
Special Naphthas	–	–	–	–	–	–	–
Lubricants	269	176	1,619	12	275	2,351	78
Waxes	65	23	17	–	5	110	4
Petroleum Coke	168	30	12,485	–	3,102	15,786	526
Asphalt and Road Oil	126	12	335	1	23	496	17
Miscellaneous Products	16	1	40	–	3	60	2
Total	8,808	14,579	262,776	27	10,712	296,902	9,897

– = Not Applicable.

– = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-November 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	17,141	22,620	1,154,884	0	1,548	1,196,194	3,581
Hydrocarbon Gas Liquids	85,118	80,593	610,688	396	17,176	793,972	2,377
Natural Gas Liquids	85,118	80,593	610,688	396	17,176	793,972	2,377
Ethane	23,941	23,822	100,884	1	7	148,656	445
Propane	46,135	1,582	400,676	9	8,571	456,974	1,368
Normal Butane	14,307	1,339	106,201	26	8,327	130,200	390
Isobutane	8	28	1,634	—	23	1,693	5
Natural Gasoline	727	53,823	1,293	359	248	56,449	169
Other Liquids	2,754	36,343	108,914	139	8,264	156,414	468
Hydrogen/Biofuels/Other Hydrocarbons	1,792	10,761	19,270	121	5,196	37,141	111
Hydrogen	—	—	—	—	—	—	—
Biofuels	1,792	10,761	19,270	121	5,196	37,141	111
Fuel Ethanol	1,487	8,426	17,996	2	2,539	30,450	91
Biodiesel	305	2,335	1,274	119	2,657	6,691	20
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	574	24,226	71,522	2	1,318	97,643	292
Naphthas and Lighter	434	24,091	67,917	1	1,164	93,607	280
Kerosene and Light Gas Oils	140	136	3,605	1	154	4,035	12
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	389	1,355	18,121	15	1,750	21,630	65
Reformulated	9	—	11	—	16	37	0
Conventional	380	1,355	18,110	15	1,734	21,594	65
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	22,446	12,475	918,743	169	80,398	1,034,231	3,097
Finished Motor Gasoline	775	3,984	279,277	9	9,060	293,105	878
Reformulated	—	—	—	—	—	—	—
Conventional	775	3,984	279,277	9	9,060	293,105	878
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	323	218	52,784	1	6,718	60,045	180
Kerosene	118	9	2,162	—	207	2,496	7
Distillate Fuel Oil	7,906	1,653	385,541	1	21,508	416,609	1,247
15 ppm sulfur and under	6,066	7	331,095	0	16,906	354,075	1,060
Greater than 15 ppm to 500 ppm sulfur	1,390	373	26,431	1	1,647	29,842	89
Greater than 500 ppm sulfur	450	1,273	28,015	—	2,954	32,693	98
Residual Fuel Oil	2,286	11	26,743	—	5,895	34,935	105
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,656	2,119	24,855	136	2,553	32,318	97
Waxes	867	399	240	1	47	1,554	5
Petroleum Coke	6,378	3,334	143,580	0	34,097	187,390	561
Asphalt and Road Oil	936	735	3,176	21	307	5,175	15
Miscellaneous Products	201	12	385	0	6	604	2
Total	127,459	152,032	2,793,230	704	107,387	3,180,812	9,523

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	0	—	293	293	—	—	—
Australia	—	0	—	1	—	—	—	0	0	1
Bahamas	—	21	—	0	—	2,128	2,128	—	1,321	1,321
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	822	—	2	—	—	—	—	—	—
Belize	—	18	—	—	—	41	41	—	—	—
Brazil	984	501	—	1,011	—	1,305	1,305	—	—	—
Canada	11,266	8,246	—	2,251	—	314	314	—	525	525
Cayman Islands	—	5	—	—	—	10	10	—	—	—
Chile	—	1,109	—	14	—	1,792	1,792	—	—	—
China	8,799	8,726	—	5	—	—	—	—	0	0
Colombia	525	157	—	1,297	—	2,199	2,199	—	—	—
Costa Rica	—	133	—	6	—	600	600	0	—	0
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	1,002	1,202	—	0	—	859	859	—	—	—
Ecuador	—	1,568	—	0	—	1,224	1,224	—	—	—
Egypt	—	921	—	—	—	—	—	—	—	—
El Salvador	—	239	—	—	—	454	454	—	—	—
Finland	752	—	—	—	—	—	—	—	—	—
France	6,043	708	—	0	—	—	—	—	—	—
Germany	3,315	—	—	7	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	742	—	—	—	—	—	—	—	—
Greece	—	249	—	—	—	—	—	—	—	—
Guatemala	—	413	—	0	—	1,565	1,565	—	—	—
Honduras	—	562	—	—	—	367	367	—	0	0
Hong Kong	—	—	—	—	—	—	—	—	—	—
India	17,543	3,811	—	15	—	—	—	—	—	—
Indonesia	—	2,370	—	1	—	—	—	—	—	—
Ireland	1,275	—	—	—	—	—	—	—	—	—
Israel	—	1	—	0	—	—	—	—	—	—
Italy	2,996	104	—	8	—	—	—	—	—	—
Jamaica	—	63	—	—	—	42	42	—	—	—
Japan	—	15,641	—	1,121	—	1	1	0	—	0
Korea, South	15,637	3,535	—	10	—	0	0	—	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	5,066	—	514	—	13,723	13,723	1	151	152
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,890	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	12,289	3,058	—	330	—	—	—	—	—	—
New Zealand	—	0	—	—	—	—	—	—	—	—
Nicaragua	294	—	—	—	—	—	—	—	—	—
Nigeria	—	425	—	—	—	483	483	—	—	—
Norway	3,194	1,312	—	145	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	0	—	—	—
Panama	3,459	253	—	—	—	915	915	—	—	—
Peru	—	257	—	3	—	985	985	—	—	—
Philippines	—	—	—	0	—	—	—	—	—	—
Portugal	—	370	—	—	—	—	—	—	—	—
Puerto Rico	—	3	—	1	—	1	1	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	7	—	0	0	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	9,733	7	—	1	—	—	—	—	0	0
South Africa	—	401	—	7	—	—	—	—	—	—
Spain	5,017	1,091	—	17	—	—	—	—	—	—
Switzerland	—	—	—	0	—	—	—	—	—	—
Taiwan	5,536	21	—	3	—	0	0	0	—	0
Thailand	298	—	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	0	0	—	—	—
Turkiye	—	899	—	—	—	—	—	—	0	0
United Arab Emirates	—	—	—	—	—	1	1	1	—	1
United Kingdom	8,759	738	—	0	—	26	26	—	—	—
Venezuela	—	—	—	1	—	—	—	—	—	—
Other	2,548	4,386	—	5	—	201	201	1	1	1
Total	121,264	72,044	—	6,784	—	29,529	29,529	3	1,998	2,001

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	—	—	NA	NA	778	—	—	—	778	—	—
Australia	0	—	NA	NA	—	—	—	—	—	—	—
Bahamas	0	—	NA	NA	343	170	330	—	843	—	—
Bahrain	—	—	NA	NA	—	—	—	—	—	—	—
Belgium	0	—	NA	NA	324	—	—	—	324	—	—
Belize	—	—	NA	NA	1	365	—	—	366	—	—
Brazil	0	—	NA	NA	2,968	—	130	—	3,098	181	—
Canada	1,143	180	NA	NA	0	201	84	—	285	20	—
Cayman Islands	0	—	NA	NA	116	—	—	—	116	—	—
Chile	0	—	NA	NA	2,809	—	—	—	2,809	—	—
China	0	—	NA	NA	1	—	—	—	1	—	—
Colombia	44	—	NA	NA	1,418	—	—	—	1,418	—	—
Costa Rica	0	—	NA	NA	740	—	—	—	740	0	—
Denmark	—	—	NA	NA	—	—	—	—	—	—	—
Dominican Republic	1	—	NA	NA	189	—	439	—	628	0	—
Ecuador	0	—	NA	NA	2,848	—	—	—	2,848	0	—
Egypt	—	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	—	NA	NA	101	240	76	—	417	0	—
Finland	—	—	NA	NA	—	—	—	—	—	—	—
France	0	—	NA	NA	—	—	—	—	—	—	—
Germany	—	3	NA	NA	—	—	—	—	—	—	—
Ghana	—	—	NA	NA	—	—	—	—	—	—	—
Gibraltar	—	—	NA	NA	—	—	—	—	—	—	—
Greece	—	—	NA	NA	—	—	—	—	—	—	—
Guatemala	0	—	NA	NA	384	398	185	—	967	0	—
Honduras	—	—	NA	NA	243	160	—	—	403	—	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	1	—	NA	NA	0	—	3	—	3	—	—
Indonesia	—	0	NA	NA	—	—	—	—	—	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	1	—	NA	NA	0	—	—	—	0	1	—
Italy	—	—	NA	NA	—	—	—	—	—	—	—
Jamaica	64	—	NA	NA	180	—	—	—	180	0	—
Japan	0	—	NA	NA	—	—	—	—	—	0	—
Korea, South	185	—	NA	NA	0	—	—	—	0	—	—
Lebanon	—	—	NA	NA	—	—	—	—	—	—	—
Mexico	122	0	NA	NA	7,341	38	10	—	7,389	0	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	—	—	NA	NA	—	—	—	—	—	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	109	—	NA	NA	983	—	283	—	1,266	0	—
New Zealand	—	—	NA	NA	0	—	—	—	0	—	—
Nicaragua	—	—	NA	NA	—	106	74	—	180	20	—
Nigeria	0	—	NA	NA	0	—	—	—	0	—	—
Norway	31	—	NA	NA	—	—	—	—	—	—	—
Pakistan	—	—	NA	NA	—	—	—	—	—	—	—
Panama	—	—	NA	NA	1,114	295	451	—	1,861	0	—
Peru	107	37	NA	NA	2,849	—	—	—	2,849	—	—
Philippines	51	—	NA	NA	—	—	—	—	—	—	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	6	—	NA	NA	130	—	—	—	130	—	—
Romania	—	—	NA	NA	—	—	—	—	—	—	—
Saudi Arabia	0	—	NA	NA	1	—	—	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	0	—	NA	NA	671	—	—	—	671	0	—
South Africa	—	—	NA	NA	0	—	—	—	0	—	—
Spain	—	—	NA	NA	—	—	—	—	—	—	—
Switzerland	3	—	NA	NA	0	—	—	—	0	—	—
Taiwan	0	—	NA	NA	—	—	—	—	—	—	—
Thailand	0	—	NA	NA	—	—	—	—	—	—	—
Trinidad and Tobago	0	—	NA	NA	307	—	240	—	547	—	—
Turkiye	0	—	NA	NA	0	—	—	—	0	—	—
United Arab Emirates	—	—	NA	NA	—	—	—	—	—	0	—
United Kingdom	78	—	NA	NA	1,303	—	266	—	1,569	—	—
Venezuela	—	—	NA	NA	0	—	—	—	0	—	—
Other	3	1	NA	NA	1,311	672	495	—	2,477	1	—
Total	1,949	221	NA	NA	29,453	2,645	3,066	—	35,164	223	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	74	—	416	—	—	0	0
Australia	—	—	—	—	—	—	1	319
Bahamas	—	54	—	533	—	—	—	—
Bahrain	—	—	—	—	—	—	0	116
Belgium	—	—	—	—	—	—	—	2
Belize	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	1	1,975
Canada	—	870	—	663	—	—	79	641
Cayman Islands	—	4	—	0	—	—	—	—
Chile	—	514	—	896	—	—	0	—
China	—	—	—	1	—	—	2	3,816
Colombia	—	105	—	—	—	—	0	—
Costa Rica	—	120	—	—	—	—	0	204
Denmark	—	—	—	—	—	—	0	—
Dominican Republic	—	120	—	0	—	—	0	182
Ecuador	—	—	—	—	—	—	0	—
Egypt	—	—	—	—	—	—	—	292
El Salvador	—	40	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	0	22
Germany	—	—	—	—	—	—	1	0
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	140	—	—	—	—	—	—
Honduras	—	52	—	—	—	—	0	290
Hong Kong	—	—	—	—	—	—	0	—
India	—	—	—	25	—	—	2	1,608
Indonesia	—	—	—	—	—	—	0	—
Ireland	—	—	—	—	—	—	—	145
Israel	—	333	—	—	—	—	—	—
Italy	—	—	—	—	—	—	0	420
Jamaica	—	152	—	—	—	—	—	—
Japan	—	—	—	1	—	—	1	1,178
Korea, South	—	—	—	270	—	—	0	285
Lebanon	—	—	—	—	—	—	—	126
Mexico	—	600	—	57	—	—	15	2,177
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	295
Mozambique	—	—	—	—	—	—	—	121
Netherlands	—	—	—	675	—	—	3	0
New Zealand	—	—	—	—	—	—	0	66
Nicaragua	—	1	—	—	—	—	0	0
Nigeria	—	—	—	—	—	—	0	—
Norway	—	—	—	—	—	—	0	86
Pakistan	—	—	—	—	—	—	0	—
Panama	—	524	—	231	—	—	—	—
Peru	—	280	—	—	—	—	0	0
Philippines	—	—	—	—	—	—	0	303
Portugal	—	—	—	—	—	—	0	—
Puerto Rico	—	1	—	1	—	—	0	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	45
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	0	—
South Africa	—	—	—	38	—	—	0	127
Spain	—	—	—	—	—	—	0	27
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	0	—
Thailand	—	—	—	—	—	—	0	0
Trinidad and Tobago	—	0	—	—	—	—	0	—
Turkiye	—	—	—	—	—	—	0	273
United Arab Emirates	—	—	—	—	—	—	0	1
United Kingdom	—	60	—	—	—	—	0	—
Venezuela	—	—	—	—	—	—	—	—
Other	—	612	—	456	—	—	5	644
Total	—	4,656	—	4,263	—	—	110	15,786

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	48	89	—	1,699	1,699	—	57	57
Australia	0	4	1	326	326	—	11	11
Bahamas	2	2	—	4,905	4,905	—	164	164
Bahrain	—	0	—	116	116	—	4	4
Belgium	—	295	1	1,448	1,448	—	48	48
Belize	—	1	—	426	426	—	14	14
Brazil	0	153	1	8,227	9,210	33	274	307
Canada	103	286	5	15,611	26,878	376	520	896
Cayman Islands	0	1	—	136	136	—	5	5
Chile	60	105	—	7,301	7,301	—	243	243
China	1	10	1	12,563	21,362	293	419	712
Colombia	0	121	0	5,342	5,867	17	178	196
Costa Rica	—	8	0	1,812	1,812	—	60	60
Denmark	—	0	—	0	0	—	0	0
Dominican Republic	3	24	0	3,018	4,020	33	101	134
Ecuador	—	31	9	5,680	5,680	—	189	189
Egypt	—	—	—	1,213	1,213	—	40	40
El Salvador	—	8	—	1,159	1,159	—	39	39
Finland	—	0	—	0	752	25	0	25
France	—	51	—	782	6,824	201	26	227
Germany	1	2	0	14	3,330	111	0	111
Ghana	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	742	742	—	25	25
Greece	—	0	—	249	249	—	8	8
Guatemala	0	11	—	3,097	3,097	—	103	103
Honduras	—	12	—	1,686	1,686	—	56	56
Hong Kong	—	0	0	1	1	—	0	0
India	0	40	0	5,505	23,048	585	184	768
Indonesia	1	1	0	2,374	2,374	—	79	79
Ireland	—	—	0	145	1,421	43	5	47
Israel	—	24	0	360	360	—	12	12
Italy	—	1	—	532	3,528	100	18	118
Jamaica	—	14	0	515	515	—	17	17
Japan	1	6	6	17,956	17,956	—	599	599
Korea, South	3	8	1	4,298	19,935	521	143	665
Lebanon	—	1	—	127	127	—	4	4
Mexico	88	587	31	30,522	30,522	—	1,017	1,017
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	2,184	2,184	—	73	73
Mozambique	—	—	—	121	121	—	4	4
Netherlands	1	1	0	5,444	17,733	410	181	591
New Zealand	151	1	—	218	218	—	7	7
Nicaragua	—	4	—	205	499	10	7	17
Nigeria	—	129	—	1,037	1,037	—	35	35
Norway	—	0	—	1,575	4,769	106	52	159
Pakistan	—	0	—	0	0	—	0	0
Panama	—	20	0	3,804	7,263	115	127	242
Peru	—	76	0	4,596	4,596	—	153	153
Philippines	—	1	0	355	355	—	12	12
Portugal	—	—	—	370	370	—	12	12
Puerto Rico	1	17	—	161	161	—	5	5
Romania	—	0	—	0	0	—	0	0
Saudi Arabia	—	10	—	63	63	—	2	2
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	13	0	692	10,425	324	23	348
South Africa	0	8	—	581	581	—	19	19
Spain	—	2	—	1,137	6,154	167	38	205
Switzerland	—	0	—	4	4	—	0	0
Taiwan	0	2	0	26	5,562	185	1	185
Thailand	0	5	0	7	305	10	0	10
Trinidad and Tobago	—	4	0	552	552	—	18	18
Türkiye	—	35	—	1,208	1,208	—	40	40
United Arab Emirates	—	32	0	35	35	—	1	1
United Kingdom	—	46	0	2,517	11,276	292	84	376
Venezuela	—	9	—	10	10	—	0	0
Other	32	40	4	8,849	11,396	85	299	383
Total	496	2,351	60	175,638	296,902	4,042	5,855	9,897

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	266	—	1,655	—	1,092	1,092	—	0	0
Australia	8,083	2,867	—	25	—	0	0	4	0	4
Bahamas	1,192	370	—	217	—	5,564	5,564	0	2,298	2,298
Bahrain	—	—	—	0	—	1	1	0	—	0
Belgium	965	16,454	—	2,833	—	0	0	—	0	0
Belize	—	213	—	—	—	223	223	—	—	—
Brazil	21,493	13,998	—	18,537	—	12,485	12,485	—	—	—
Canada	112,335	82,257	—	24,312	—	7,082	7,082	—	9,265	9,265
Cayman Islands	—	35	—	0	—	224	224	0	1	1
Chile	2,090	14,142	—	980	—	15,508	15,508	1	271	271
China	75,686	99,472	—	37	—	1	1	0	0	0
Colombia	8,773	1,018	—	12,214	—	14,038	14,038	—	0	0
Costa Rica	—	2,148	—	143	—	7,232	7,232	0	0	0
Denmark	14,304	—	—	184	—	0	0	0	—	0
Dominican Republic	7,443	13,686	—	12	—	5,116	5,116	1	201	202
Ecuador	—	12,074	—	3,401	—	5,833	5,833	—	9	9
Egypt	—	12,822	—	0	—	—	—	—	—	—
El Salvador	—	3,142	—	1	—	5,823	5,823	—	—	—
Finland	3,170	6,514	—	518	—	—	—	—	—	—
France	55,009	7,988	—	517	—	701	701	—	0	0
Germany	38,158	216	—	33	—	0	0	0	—	0
Ghana	—	1,686	—	0	—	—	—	—	—	—
Gibraltar	—	742	—	—	—	—	—	—	—	—
Greece	—	249	—	—	—	1	1	—	0	0
Guatemala	—	3,129	—	38	—	14,548	14,548	0	108	108
Honduras	—	5,718	—	38	—	5,381	5,381	—	1	1
Hong Kong	—	—	—	0	—	0	0	—	—	—
India	110,558	37,847	—	65	—	0	0	0	0	0
Indonesia	2,012	27,335	—	4	—	—	—	—	—	—
Ireland	8,243	—	—	—	—	1	1	—	—	—
Israel	—	105	—	1	—	0	0	—	0	0
Italy	54,522	1,093	—	38	—	—	—	—	—	—
Jamaica	—	430	—	0	—	1,840	1,840	0	1	1
Japan	10,992	134,375	—	4,958	—	4	4	11	—	11
Korea, South	123,898	46,460	—	541	—	511	511	4	5	9
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	66,845	—	5,743	—	161,197	161,197	7	8,077	8,083
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	16,126	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	118,243	28,798	—	10,729	—	4	4	—	—	—
New Zealand	—	2	—	0	—	0	0	—	—	—
Nicaragua	2,971	50	—	—	—	416	416	—	—	—
Nigeria	—	3,949	—	1	—	2,273	2,273	—	—	—
Norway	6,810	12,362	—	945	—	—	—	—	—	—
Pakistan	—	—	—	13	—	1	1	—	0	0
Panama	5,982	2,795	—	4	—	7,553	7,553	1	304	305
Peru	4,927	4,016	—	938	—	11,244	11,244	—	710	710
Philippines	—	0	—	2	—	—	—	—	—	—
Portugal	4,333	7,338	—	—	—	—	—	—	—	—
Puerto Rico	—	72	—	16	—	204	204	0	1	1
Romania	—	62	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	2,312	—	2	2	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	106,946	20,387	—	837	—	3	3	—	0	0
South Africa	—	4,640	—	26	—	631	631	0	—	0
Spain	54,058	12,768	—	36	—	736	736	—	—	—
Switzerland	1,535	3,339	—	843	—	—	—	—	310	310
Taiwan	59,116	598	—	2,824	—	3	3	0	0	0
Thailand	18,944	0	—	15	—	0	0	—	—	—
Trinidad and Tobago	—	8	—	2	—	886	886	—	—	—
Turkiye	—	14,903	—	0	—	0	0	—	0	0
United Arab Emirates	—	0	—	3	—	10	10	1	0	1
United Kingdom	111,326	15,024	—	445	—	1,123	1,123	1	1	1
Venezuela	—	3	—	8	—	4	4	1	0	1
Other	42,077	31,035	—	599	—	3,606	3,606	5	31	38
Total	1,196,194	793,972	—	97,643	—	293,105	293,105	37	21,594	21,630

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	1	0	NA	NA	15,190	535	2,138	—	17,863	0	—
Australia	80	0	NA	NA	5	—	2	—	7	0	—
Bahamas	2	0	NA	NA	4,805	626	2,897	—	8,328	0	—
Bahrain	0	—	NA	NA	—	—	—	—	—	0	—
Belgium	1	0	NA	NA	2,068	—	488	—	2,556	—	—
Belize	—	—	NA	NA	163	550	—	—	713	—	—
Brazil	1,417	—	NA	NA	44,993	1,867	1,715	—	48,574	940	—
Canada	10,821	4,073	NA	NA	261	2,202	1,665	—	4,128	471	—
Cayman Islands	0	—	NA	NA	1,202	185	—	—	1,387	—	—
Chile	174	1	NA	NA	48,364	593	300	—	49,257	0	—
China	11	0	NA	NA	462	150	1	—	613	0	—
Colombia	297	—	NA	NA	11,558	136	—	—	11,694	19	—
Costa Rica	4	—	NA	NA	7,277	21	0	—	7,298	1	—
Denmark	—	—	NA	NA	757	—	—	—	757	—	—
Dominican Republic	12	—	NA	NA	3,055	35	3,456	—	6,547	101	—
Ecuador	0	—	NA	NA	14,207	1,427	406	—	16,040	2	—
Egypt	118	—	NA	NA	—	—	—	—	—	—	—
El Salvador	0	—	NA	NA	2,230	1,335	957	—	4,522	0	—
Finland	52	—	NA	NA	—	—	—	—	—	—	—
France	62	—	NA	NA	1,507	213	—	—	1,720	0	—
Germany	2	26	NA	NA	1	—	—	—	1	—	—
Ghana	—	—	NA	NA	626	—	—	—	626	—	—
Gibraltar	31	—	NA	NA	280	—	—	—	280	—	—
Greece	230	—	NA	NA	—	—	—	—	—	—	—
Guatemala	1	—	NA	NA	7,165	3,027	1,835	—	12,027	2	—
Honduras	0	—	NA	NA	3,337	3,205	1,143	—	7,685	151	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	2,112	0	NA	NA	270	1	3	—	273	—	—
Indonesia	1	1	NA	NA	4	—	—	—	4	—	—
Ireland	1	—	NA	NA	—	—	—	—	—	—	—
Israel	7	—	NA	NA	0	—	—	—	0	1	—
Italy	0	0	NA	NA	—	—	—	—	—	—	—
Jamaica	469	—	NA	NA	1,296	561	871	—	2,727	0	—
Japan	4	—	NA	NA	2	—	—	—	2	1	—
Korea, South	3,632	0	NA	NA	15	165	—	—	180	0	—
Lebanon	1	—	NA	NA	0	—	—	—	0	—	—
Mexico	1,567	3	NA	NA	96,004	1,075	557	—	97,637	20	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	0	—	NA	NA	1	31	—	—	32	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	2,357	205	NA	NA	7,431	594	1,922	—	9,947	0	—
New Zealand	0	—	NA	NA	0	—	—	—	0	0	—
Nicaragua	0	—	NA	NA	798	802	879	—	2,479	441	—
Nigeria	682	—	NA	NA	4	121	—	—	125	2	—
Norway	66	45	NA	NA	317	—	—	—	317	—	—
Pakistan	—	0	NA	NA	—	—	—	—	—	—	—
Panama	0	—	NA	NA	17,587	2,494	2,966	—	23,047	9	—
Peru	1,078	522	NA	NA	30,584	1,436	50	—	32,069	0	—
Philippines	698	—	NA	NA	—	—	—	—	—	0	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	53	—	NA	NA	1,651	150	0	—	1,801	1	—
Romania	—	—	NA	NA	1	—	—	—	1	—	—
Saudi Arabia	439	0	NA	NA	9	—	—	—	9	3	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	1,194	1,813	NA	NA	2,602	165	580	—	3,347	0	—
South Africa	0	—	NA	NA	1	—	—	—	1	—	—
Spain	72	—	NA	NA	750	—	—	—	750	0	—
Switzerland	48	0	NA	NA	401	275	—	—	676	—	—
Taiwan	4	1	NA	NA	2	—	—	—	2	2	—
Thailand	0	—	NA	NA	0	—	—	—	0	—	—
Trinidad and Tobago	3	—	NA	NA	2,111	—	2,699	—	4,810	—	—
Türkiye	24	—	NA	NA	303	—	—	—	303	—	—
United Arab Emirates	346	0	NA	NA	1	—	—	—	1	3	—
United Kingdom	1,598	0	NA	NA	9,683	600	266	—	10,549	322	—
Venezuela	0	—	NA	NA	7	—	—	—	7	—	—
Other	678	1	NA	NA	12,727	5,265	4,897	—	22,890	4	—
Total	30,450	6,691	NA	NA	354,075	29,842	32,693	—	416,609	2,496	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	356	—	806	—	—	5	452
Australia	—	0	—	0	—	—	13	2,347
Bahamas	—	1,261	—	5,063	—	—	—	—
Bahrain	—	—	—	—	—	—	0	116
Belgium	—	—	—	434	—	—	0	1,197
Belize	—	75	—	—	—	—	0	—
Brazil	—	1,952	—	6	—	—	8	18,134
Canada	—	9,181	—	3,943	—	—	1,142	6,777
Cayman Islands	—	446	—	0	—	—	0	—
Chile	—	6,175	—	1,783	—	—	5	464
China	—	0	—	27	—	—	35	33,797
Colombia	—	1,049	—	201	—	—	3	60
Costa Rica	—	1,730	—	185	—	—	1	751
Denmark	—	—	—	—	—	—	0	419
Dominican Republic	—	2,225	—	1,007	—	—	5	2,022
Ecuador	—	9	—	2	—	—	1	1,271
Egypt	—	—	—	—	—	—	—	2,522
El Salvador	—	623	—	0	—	—	1	520
Finland	—	—	—	—	—	—	0	278
France	—	—	—	0	—	—	2	917
Germany	—	—	—	2	—	—	23	359
Ghana	—	—	—	—	—	—	—	90
Gibraltar	—	—	—	137	—	—	—	—
Greece	—	—	—	0	—	—	—	3,334
Guatemala	—	677	—	20	—	—	2	3,689
Honduras	—	697	—	270	—	—	1	2,521
Hong Kong	—	—	—	—	—	—	1	0
India	—	72	—	73	—	—	22	20,715
Indonesia	—	—	—	—	—	—	1	55
Ireland	—	—	—	—	—	—	0	928
Israel	—	1,629	—	0	—	—	0	1,326
Italy	—	—	—	—	—	—	1	6,244
Jamaica	—	1,147	—	0	—	—	0	150
Japan	—	0	—	3	—	—	8	16,427
Korea, South	—	0	—	2,930	—	—	4	716
Lebanon	—	0	—	0	—	—	—	362
Mexico	—	17,088	—	2,445	—	—	188	18,736
Montenegro	—	—	—	—	—	—	—	110
Morocco	—	—	—	—	—	—	—	4,551
Mozambique	—	—	—	—	—	—	—	867
Netherlands	—	976	—	1,692	—	—	42	3,275
New Zealand	—	4	—	—	—	—	0	385
Nicaragua	—	147	—	115	—	—	0	413
Nigeria	—	0	—	—	—	—	0	187
Norway	—	—	—	—	—	—	0	975
Pakistan	—	—	—	—	—	—	0	275
Panama	—	4,716	—	6,883	—	—	0	264
Peru	—	2,812	—	64	—	—	1	235
Philippines	—	—	—	0	—	—	1	1,383
Portugal	—	—	—	—	—	—	0	875
Puerto Rico	—	621	—	3	—	—	0	—
Romania	—	—	—	—	—	—	0	281
Saudi Arabia	—	3	—	150	—	—	1	140
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	135	—	1,584	—	—	0	303
South Africa	—	—	—	63	—	—	1	658
Spain	—	—	—	75	—	—	22	4,965
Switzerland	—	—	—	—	—	—	0	—
Taiwan	—	0	—	0	—	—	1	0
Thailand	—	—	—	0	—	—	1	719
Trinidad and Tobago	—	911	—	45	—	—	0	1
Türkiye	—	—	—	2	—	—	1	9,239
United Arab Emirates	—	0	—	6	—	—	0	1,354
United Kingdom	—	275	—	1	—	—	2	1,054
Venezuela	—	0	—	—	—	—	0	—
Other	—	3,053	—	4,915	—	—	9	7,185
Total	—	60,045	—	34,935	—	—	1,554	187,390

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	281	503	1	23,281	23,281	—	70	70
Australia	3	74	2	5,421	13,505	24	16	40
Bahamas	20	28	3	23,153	24,345	4	69	73
Bahrain	—	1	—	118	118	—	0	0
Belgium	2	3,893	9	27,379	28,344	3	82	85
Belize	0	12	—	1,236	1,236	—	4	4
Brazil	1	3,210	11	119,274	140,767	64	357	421
Canada	1,598	3,366	77	168,493	280,827	336	504	841
Cayman Islands	10	12	0	2,116	2,116	—	6	6
Chile	463	924	0	90,148	92,237	6	270	276
China	9	115	9	134,126	209,812	227	402	628
Colombia	4	2,778	4	43,378	52,151	26	130	156
Costa Rica	317	166	0	19,975	19,975	—	60	60
Denmark	—	1	—	1,360	15,663	43	4	47
Dominican Republic	225	313	1	31,475	38,918	22	94	117
Ecuador	1	612	26	39,280	39,280	—	118	118
Egypt	—	4	—	15,466	15,466	—	46	46
El Salvador	0	281	0	14,915	14,915	—	45	45
Finland	—	503	—	7,865	11,036	9	24	33
France	—	761	0	12,669	67,678	165	38	203
Germany	34	28	4	730	38,888	114	2	116
Ghana	—	6	—	2,407	2,407	—	7	7
Gibraltar	—	—	—	1,190	1,190	—	4	4
Greece	—	2	—	3,816	3,816	—	11	11
Guatemala	0	197	0	34,437	34,437	—	103	103
Honduras	127	144	0	22,733	22,733	—	68	68
Hong Kong	—	10	1	14	14	—	0	0
India	2	867	3	62,052	172,610	331	186	517
Indonesia	7	23	0	27,430	29,442	6	82	88
Ireland	—	0	1	930	9,173	25	3	27
Israel	0	365	1	3,437	3,437	—	10	10
Italy	0	8	1	7,384	61,907	163	22	185
Jamaica	0	65	1	6,832	6,832	—	20	20
Japan	11	126	60	155,989	166,981	33	467	500
Korea, South	8	73	4	55,067	178,966	371	165	536
Lebanon	—	4	—	368	368	—	1	1
Mexico	1,061	7,830	337	388,778	388,778	—	1,164	1,164
Montenegro	—	—	—	110	110	—	0	0
Morocco	—	0	—	20,710	20,710	—	62	62
Mozambique	—	2	—	869	869	—	3	3
Netherlands	7	255	4	58,293	176,536	354	175	529
New Zealand	349	8	—	749	749	—	2	2
Nicaragua	—	55	—	4,116	7,087	9	12	21
Nigeria	1	843	—	8,062	8,062	—	24	24
Norway	—	2	0	14,713	21,522	20	44	64
Pakistan	0	1	0	291	291	—	1	1
Panama	225	267	0	46,067	52,049	18	138	156
Peru	0	787	1	54,477	59,405	15	163	178
Philippines	—	14	2	2,102	2,102	—	6	6
Portugal	—	1	—	8,213	12,546	13	25	38
Puerto Rico	217	190	0	3,180	3,180	—	10	10
Romania	—	2	—	346	346	—	1	1
Saudi Arabia	0	68	0	3,128	3,128	—	9	9
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	115	0	29,719	136,665	320	89	409
South Africa	0	406	—	6,426	6,426	—	19	19
Spain	0	22	—	19,446	73,504	162	58	220
Switzerland	1	35	0	5,253	6,788	5	16	20
Taiwan	2	53	1	3,493	62,609	177	10	187
Thailand	1	89	2	828	19,771	57	2	59
Trinidad and Tobago	—	84	0	6,750	6,750	—	20	20
Türkiye	1	256	—	24,730	24,730	—	74	74
United Arab Emirates	7	415	0	2,148	2,148	—	6	6
United Kingdom	1	193	1	30,589	141,915	333	92	425
Venezuela	—	80	0	104	104	—	0	0
Other	178	770	37	74,983	117,061	126	227	354
Total	5,175	32,318	604	1,984,617	3,180,812	3,581	5,942	9,523

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,055	-6	-	238	-	-16	-16	0	37	37
Algeria	81	-	-	43	-	-	-	-	4	4
Angola	32	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	265	-	-	109	-	-	-	-	-	-
Kuwait	39	-	-	-	-	0	0	0	-	0
Libya	76	-	-	-	-	-	-	-	-	-
Nigeria	122	-14	-	-	-	-16	-16	-	9	9
Saudi Arabia	440	-	-	73	-	0	0	-	24	24
United Arab Emirates	-	-	-	14	-	0	0	0	-	0
Venezuela	-	-	-	0	-	-	-	-	-	-
Non-OPEC	1,146	-2,221	17	63	-	-869	-869	145	221	366
Argentina	101	-	-	3	-	-10	-10	-	10	10
Aruba	-	-	-	0	-	-2	-2	-	-	-
Australia	-	0	-	0	-	-	-	0	0	0
Bahamas	-	-1	-	0	-	-61	-61	10	-24	-14
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-27	-	13	-	-	-	0	2	2
Brazil	151	-17	-	-34	-	-44	-44	-	1	1
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,380	-110	17	-57	-	4	4	69	30	99
Chad	-	-	-	-	-	-	-	-	-	-
China	-293	-291	-	0	-	-	-	-	0	0
Colombia	188	-5	-	-43	-	-73	-73	-	-	-
Denmark	-	-	-	-	-	-	-	0	0	0
Dominican Republic	-33	-40	-	0	-	-29	-29	-	-	-
Ecuador	159	-52	-	38	-	-41	-41	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-25	-	-	-	-	-	-	-	20	20
France	-201	-24	-	0	-	5	5	-	22	22
Germany	-111	-	-	6	-	2	2	1	1	2
Guatemala	-	-14	-	0	-	-52	-52	-	-	-
Honduras	-	-19	-	-	-	-12	-12	-	0	0
India	-585	-127	-	0	-	-	-	-	-	-
Indonesia	-	-79	-	0	-	-	-	-	-	-
Italy	-100	-3	-	5	-	0	0	5	26	31
Japan	-	-521	-	-37	-	5	5	0	6	6
Korea, South	-521	-118	-	1	-	8	8	-	11	11
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	7	7	2	1	3
Malaysia	-	-	-	35	-	-	-	-	-	-
Mexico	490	-169	-	69	-	-457	-457	0	3	3
Netherlands	-410	-102	-	6	-	13	13	11	15	26
Norway	-106	-44	-	-5	-	18	18	12	4	15
Oman	-	-	-	6	-	-	-	-	-	-
Panama	-115	-8	-	-	-	-31	-31	-	-	-
Portugal	-	-12	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-167	-36	-	14	-	12	12	3	40	43
Sweden	-	-89	-	3	-	-	-	-	10	10
Trinidad and Tobago	51	0	-	0	-	0	0	-	-	-
United Kingdom	-238	-25	-	22	-	4	4	33	2	35
Vietnam	-	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-2	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-469	-286	0	18	-	-135	-135	-1	41	41
Total	2,201	-2,227	17	301	-	-885	-885	145	258	403
Persian Gulf⁵	744	-	-	195	-	0	0	0	24	24

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	0	—	—	—	1	—	—	—	1	0	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	0	—	—	—	1	—	—	—	1	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	0	—	—	—	0	—	—	—	0	—	—
Saudi Arabia	0	—	—	—	0	—	—	—	0	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	0	—
Venezuela	—	—	—	—	0	—	—	—	0	—	—
Non-OPEC	-48	23	23	—	-755	-88	-102	—	-945	-7	1
Argentina	—	—	—	—	-26	—	—	—	-26	—	—
Aruba	0	—	—	—	-1	—	—	—	-1	0	—
Australia	0	—	—	—	—	—	—	—	—	—	—
Bahamas	0	—	—	—	-11	-6	-11	—	-28	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	0	3	—	—	-10	—	—	—	-10	—	—
Brazil	17	—	—	—	-99	—	-4	—	-103	-6	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	-38	5	—	—	123	-6	-3	—	114	-1	0
Chad	—	—	—	—	—	—	—	—	—	—	—
China	0	—	—	—	0	—	—	—	0	—	—
Colombia	-1	—	—	—	-47	—	—	—	-47	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	—	-6	—	-15	—	-21	0	—
Ecuador	0	—	—	—	-95	—	—	—	-95	0	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	0	—	—	—	—	—	—	—	—	—	—
Germany	—	10	—	—	—	—	—	—	—	—	—
Guatemala	0	—	—	—	-13	-13	-6	—	-32	0	—
Honduras	—	—	—	—	-8	-5	—	—	-13	—	—
India	0	—	—	—	0	—	0	—	0	—	—
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Italy	—	5	—	—	—	—	—	—	—	—	—
Japan	0	—	—	—	—	—	—	—	—	0	—
Korea, South	-6	—	—	—	33	—	—	—	33	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	0	—	—	—	0	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	-4	0	—	—	-245	-1	0	—	-246	0	—
Netherlands	-4	—	—	—	-15	—	-9	—	-24	0	1
Norway	-1	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	16	—	—	—	16	—	—
Panama	—	—	—	—	-37	-10	-15	—	-62	0	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	—	-4	—	—	—	-4	—	—
Qatar	0	—	—	—	24	—	—	—	24	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	0	—	—	—	-10	—	-8	—	-18	—	—
United Kingdom	-3	—	—	—	-43	—	-9	—	-52	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	0	—	—	—	-27	—	-5	—	-32	0	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	-8	0	23	—	-254	-47	-17	—	-318	0	0
Total	-48	23	23	—	-755	-88	-102	—	-945	-7	1
Persian Gulf⁵	0	—	—	—	25	—	—	—	25	0	—

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	-	23	-	20	-	-	0	-2
Algeria	-	4	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	6	-	-	-	-
Kuwait	-	19	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	0	-
Saudi Arabia	-	-	-	15	-	-	-	-1
United Arab Emirates	-	-	-	-	-	-	0	0
Venezuela	-	-	-	-	-	-	-	-
Non-OPEC	-	-35	4	87	8	3	1	-524
Argentina	-	-2	-	-1	-	-	0	0
Aruba	-	-3	-	-	-	-	-	-
Australia	-	-	-	-	-	-	0	-11
Bahamas	-	-2	-	-18	-	-	-	-
Bahrain	-	-	-	4	-	-	0	-4
Belgium	-	-	-	15	-	-	-	0
Brazil	-	-	-	35	-	-	0	-66
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-2
Canada	-	-22	0	-6	3	2	0	-21
Chad	-	-	-	-	-	-	-	-
China	-	10	-	0	-	-	0	-127
Colombia	-	-4	-	18	-	-	0	-
Denmark	-	-	-	-	-	-	0	-
Dominican Republic	-	-4	-	0	-	-	0	-6
Ecuador	-	-	-	-	-	-	0	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	0	-1
Germany	-	0	-	13	2	-	0	0
Guatemala	-	-5	-	-	-	-	-	-
Honduras	-	-2	-	-	-	-	0	-10
India	-	-	-	-1	-	-	0	-54
Indonesia	-	-	-	-	-	-	0	-
Italy	-	-	-	-	-	-	0	-14
Japan	-	9	-	0	-	-	0	-39
Korea, South	-	92	4	-9	-	-	0	-9
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	4	-	-	0	-9
Mexico	-	-20	-	69	1	1	-1	-73
Netherlands	-	-	-	-15	-	-	0	0
Norway	-	-	-	-	-	-	0	-3
Oman	-	-	-	-	-	-	-	0
Panama	-	-17	-	-8	-	-	-	-
Portugal	-	-	-	-	-	-	0	-
Puerto Rico	-	0	-	0	-	-	0	-
Qatar	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	0	-1
Sweden	-	-	-	7	-	-	-	-
Trinidad and Tobago	-	0	-	-	-	-	0	-
United Kingdom	-	-2	-	0	0	-	0	-
Vietnam	-	-	-	-	-	-	0	-
Virgin Islands, U.S.	-	-6	-	-11	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-	-57	0	-9	2	0	2	-74
Total	-	-12	4	108	8	3	1	-525
Persian Gulf⁵	-	19	-	24	-	-	0	-5

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	-	-5	0	291	1,345
Algeria	-	0	-	51	133
Angola	-	0	-	0	32
Congo (Brazzaville)	-	-	-	-	8
Equatorial Guinea	-	-	-	-	-
Gabon	-	-	-	-	-
Iran	-	-	-	-	-
Iraq	-	0	-	115	380
Kuwait	-	0	-	20	59
Libya	-	0	-	0	76
Nigeria	-	-4	-	-26	96
Saudi Arabia	-	1	-	110	550
United Arab Emirates	-	-1	0	13	13
Venezuela	-	0	-	0	0
Non-OPEC	30	-41	-2	-4,067	-2,921
Argentina	-2	-3	-	-31	70
Aruba	-	0	-	-6	-6
Australia	0	0	0	-11	-11
Bahamas	0	0	-	-123	-123
Bahrain	-	1	-	1	1
Belgium	-	-10	0	-15	-15
Brazil	0	-5	0	-221	-69
Brunei	-	0	-	0	0
Cameroon	-	-	-	-2	-2
Canada	38	0	0	28	3,408
Chad	-	-	-	-	-
China	0	0	0	-408	-702
Colombia	0	-4	0	-160	27
Denmark	-	0	-	0	0
Dominican Republic	0	-1	0	-101	-134
Ecuador	-	-1	0	-151	8
Estonia	-	-	-	-	-
Finland	-	0	-	20	-5
France	-	-1	-	1	-200
Germany	0	0	0	34	-76
Guatemala	0	0	-	-103	-103
Honduras	-	0	-	-56	-56
India	0	-1	0	-183	-768
Indonesia	0	0	0	-79	-79
Italy	-	1	-	24	-76
Japan	0	0	0	-578	-578
Korea, South	0	0	0	7	-514
Latvia	-	0	-	0	0
Lithuania	-	-	-	10	10
Malaysia	0	0	0	30	30
Mexico	-3	-20	-1	-850	-360
Netherlands	0	4	0	-96	-506
Norway	-	0	-	-19	-126
Oman	-	-	-	23	23
Panama	-	-1	0	-127	-242
Portugal	-	-	-	-12	-12
Puerto Rico	0	-1	-	-5	-5
Qatar	0	12	-	36	36
Russia	-	-	-	-	-
Spain	5	0	-	37	-130
Sweden	-	0	-	-69	-69
Trinidad and Tobago	-	0	0	-18	33
United Kingdom	-	0	0	-19	-257
Vietnam	-	0	-	0	0
Virgin Islands, U.S.	0	0	-	-52	-52
Yemen	-	-	-	-	-
Other	-8	-11	-1	-823	-1,291
Total	30	-46	-2	-3,777	-1,576
Persian Gulf⁵	0	13	0	294	1,038

-- = Not Applicable.

- = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	971	-7	-	185	-	-5	-5	4	34	38
Algeria	17	2	-	37	-	0	0	0	1	1
Angola	46	0	-	1	-	0	0	-	3	3
Congo (Brazzaville)	6	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	2	-	-	-	-	-	-	-	-
Gabon	2	-	-	-	-	-	-	-	-	-
Iran	2	-	-	-	-	-	-	-	-	-
Iraq	241	-	-	66	-	0	0	-	-	-
Kuwait	25	0	-	7	-	0	0	0	0	0
Libya	77	-	-	0	-	0	0	-	-	-
Nigeria	91	-11	-	2	-	-7	-7	-	7	7
Saudi Arabia	452	0	-	52	-	2	2	3	22	25
United Arab Emirates	13	0	-	19	-	0	0	1	1	2
Venezuela	-	0	-	0	-	0	0	0	0	0
Non-OPEC	1,752	-2,214	15	46	-	-773	-773	152	284	435
Argentina	63	-1	-	-4	-	-3	-3	-	7	7
Aruba	-	0	-	0	-	-1	-1	-	0	0
Australia	-22	-9	-	0	-	0	0	0	0	0
Bahamas	-4	-1	-	-1	-	-6	-6	1	3	4
Bahrain	-	-	-	0	-	0	0	0	-	0
Belgium	-3	-49	-	-5	-	10	10	2	5	7
Brazil	82	-42	-	-43	-	-37	-37	-	7	7
Brunei	-	-	-	-	-	-	-	-	1	1
Cameroon	-	0	-	-	-	-	-	-	-	-
Canada	3,482	-97	15	-49	-	-7	-7	65	21	86
Chad	-	-	-	-	-	-	-	-	-	-
China	-227	-298	-	0	-	0	0	0	0	0
Colombia	198	-3	-	-34	-	-42	-42	-	0	0
Denmark	-43	-	-	-1	-	0	0	0	1	1
Dominican Republic	-22	-41	-	0	-	-15	-15	0	-1	-1
Ecuador	143	-36	-	11	-	-17	-17	-	0	0
Estonia	-	-	-	-	-	0	0	-	0	0
Finland	-9	-20	-	-1	-	0	0	-	16	16
France	-165	-24	-	3	-	4	4	4	10	14
Germany	-114	-1	-	1	-	1	1	0	2	2
Guatemala	3	-9	-	0	-	-44	-44	0	0	0
Honduras	-	-17	-	0	-	-16	-16	-	0	0
India	-331	-113	-	4	-	1	1	2	57	59
Indonesia	-2	-82	-	0	-	-	-	-	-	-
Italy	-163	-3	-	8	-	6	6	1	22	23
Japan	-33	-402	-	-13	-	1	1	0	5	5
Korea, South	-371	-139	-	-1	-	12	12	0	15	15
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-4	-	-	0	-	5	5	0	2	2
Malaysia	-10	0	-	17	-	0	0	-	2	2
Mexico	642	-200	0	56	-	-483	-483	0	-19	-19
Netherlands	-354	-86	-	-23	-	10	10	29	18	47
Norway	-2	-36	-	-3	-	5	5	6	8	15
Oman	-	0	-	1	-	-	-	-	1	1
Panama	-18	-8	-	0	-	-23	-23	0	-1	-1
Portugal	-13	-22	-	-	-	1	1	0	21	21
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Qatar	-	0	-	2	-	0	0	0	0	0
Russia	22	0	-	108	-	1	1	-	7	7
Spain	-162	-38	-	4	-	2	2	1	28	30
Sweden	-32	-44	-	-1	-	1	1	0	6	6
Trinidad and Tobago	42	1	-	0	-	-3	-3	-	-	-
United Kingdom	-293	-45	-	3	-	3	3	38	14	53
Vietnam	-6	-7	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	-2	-	0	-	-2	-2	0	0	0
Yemen	-	-	-	0	-	-	-	-	-	-
Other	-522	-340	0	7	-	-136	-136	3	26	25
Total	2,723	-2,221	15	231	-	-777	-777	156	318	474
Persian Gulf⁵	732	0	-	147	-	2	2	4	23	27

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-4	0	0	-	9	0	-	-	9	0	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	0	-	-	-	0	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	0	-	-	-	0	-	-
Kuwait	0	-	-	-	0	-	-	-	0	-	-
Libya	0	-	-	-	0	-	-	-	0	-	-
Nigeria	-2	-	-	-	2	0	-	-	2	0	-
Saudi Arabia	-1	0	-	-	7	-	-	-	7	0	-
United Arab Emirates	-1	0	0	-	0	-	-	-	0	0	-
Venezuela	0	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-82	-5	17	0	-889	-85	-97	1	-1,070	-7	1
Argentina	0	0	-	-	-45	-2	-6	-	-53	0	-
Aruba	0	-	-	-	-1	-	0	-	-1	0	-
Australia	0	0	-	-	0	-	0	-	0	0	-
Bahamas	0	0	-	-	-14	-2	-9	-	-25	0	-
Bahrain	0	-	-	-	-	-	-	-	-	0	-
Belgium	0	0	-	-	-4	-	-1	-	-5	-	-
Brazil	1	-	-	-	-135	-6	-5	-	-145	-3	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-32	-4	-	-	127	-6	-5	-	116	-1	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-	-	-1	0	0	-	-2	0	-
Colombia	-1	-	-	-	-32	0	-	-	-33	0	-
Denmark	-	-	-	-	-2	-	-	-	-2	-	-
Dominican Republic	0	-	-	-	-9	0	-10	-	-20	0	-
Ecuador	0	-	-	-	-43	-4	-1	1	-47	0	-
Estonia	-	-	-	-	-	-	-	-	-	-	0
Finland	0	-	-	0	-	-	-	-	-	-	-
France	0	-	-	-	-5	-1	-	-	-5	0	-
Germany	0	4	-	-	0	-	-	-	0	-	-
Guatemala	0	-	-	-	-21	-9	-5	-	-36	0	-
Honduras	0	-	-	-	-10	-10	-3	-	-23	0	-
India	-6	0	-	-	-1	0	0	-	-1	-	-
Indonesia	0	0	-	-	0	-	-	-	0	-	-
Italy	0	1	-	-	-	-	-	-	-	-	-
Japan	0	-	-	0	1	-	-	-	1	0	-
Korea, South	-11	1	-	-	6	3	-	-	9	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	0	-	-	-	0	-	-
Malaysia	0	0	-	0	0	-	-	-	0	0	-
Mexico	-5	0	-	-	-287	-3	-2	-	-292	0	-
Netherlands	-7	-1	0	-	-12	-2	-6	-	-20	0	1
Norway	0	0	-	-	-1	-	-	-	-1	-	-
Oman	-1	-	-	-	1	-	-	-	1	-	-
Panama	0	-	-	-	-53	-7	-9	-	-69	0	-
Portugal	-	-	-	-	1	-	-	-	1	-	-
Puerto Rico	0	-	-	-	-5	0	0	-	-5	0	-
Qatar	0	-	-	-	11	-	-	-	11	-	-
Russia	-	-	-	-	6	-	0	-	7	-	-
Spain	0	1	-	-	-2	-	-	-	-2	0	-
Sweden	-1	-	-	-	-1	-1	-	-	-2	-	-
Trinidad and Tobago	0	-	-	-	-6	-	-8	-	-14	-	-
United Kingdom	-5	0	-	-	-29	-2	-1	-	-32	-1	-
Vietnam	-	-	-	-	0	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-	-15	-2	-5	-	-21	0	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-14	-7	17	0	-308	-31	-21	0	-360	-2	0
Total	-86	-5	17	0	-880	-85	-97	1	-1,062	-7	1
Persian Gulf⁵	-2	0	0	-	19	-	-	-	19	0	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	—	11	0	13	0	—	0	-5
Algeria	—	0	—	4	—	—	—	0
Angola	—	—	—	—	0	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—
Equatorial Guinea	—	0	—	0	—	—	—	—
Gabon	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—
Iraq	—	—	—	2	—	—	0	—
Kuwait	—	9	—	—	—	—	0	0
Libya	—	—	—	—	—	—	—	—
Nigeria	—	0	—	—	—	—	0	-1
Saudi Arabia	—	1	0	7	—	—	0	0
United Arab Emirates	—	1	—	0	—	—	0	-4
Venezuela	—	0	—	—	—	—	0	—
Non-OPEC	—	-71	13	102	11	3	1	-546
Argentina	—	-1	—	-1	—	0	0	1
Aruba	—	-1	—	—	—	—	—	—
Australia	—	0	—	0	—	—	0	-7
Bahamas	—	-4	—	-13	—	—	—	—
Bahrain	—	—	—	1	—	—	0	0
Belgium	—	0	—	4	—	—	0	-4
Brazil	—	-6	—	20	—	—	0	-50
Brunei	—	—	—	—	—	—	—	—
Cameroon	—	—	—	0	—	—	—	0
Canada	—	-17	3	6	3	2	0	-20
Chad	—	—	—	—	—	—	—	—
China	—	5	—	0	—	—	1	-101
Colombia	—	-3	—	14	—	—	0	0
Denmark	—	—	—	1	—	—	0	-1
Dominican Republic	—	-7	—	-3	—	—	0	-6
Ecuador	—	0	—	3	—	—	0	-4
Estonia	—	—	—	—	—	—	0	—
Finland	—	—	—	—	—	—	0	-1
France	—	—	—	0	0	0	0	-3
Germany	—	0	0	3	0	—	0	-1
Guatemala	—	-2	—	0	—	—	0	-11
Honduras	—	-2	—	-1	—	—	0	-8
India	—	4	—	0	—	—	0	-62
Indonesia	—	—	—	—	—	—	0	0
Italy	—	—	—	0	—	—	0	-19
Japan	—	18	1	0	1	—	0	-49
Korea, South	—	62	9	-9	1	—	0	-2
Latvia	—	0	—	—	—	—	—	—
Lithuania	—	—	—	3	—	—	0	—
Malaysia	—	—	—	2	—	—	1	-1
Mexico	—	-51	0	80	3	0	-1	-56
Netherlands	—	-3	0	0	0	—	0	-10
Norway	—	—	—	1	—	—	0	-3
Oman	—	0	—	—	—	—	—	-2
Panama	—	-14	—	-20	—	—	0	-1
Portugal	—	—	—	—	—	—	0	-3
Puerto Rico	—	-2	—	0	—	—	0	—
Qatar	—	1	—	—	0	—	0	-1
Russia	—	—	—	16	—	—	0	0
Spain	—	—	0	2	0	—	0	-14
Sweden	—	—	—	1	—	—	0	0
Trinidad and Tobago	—	-3	—	0	—	—	0	0
United Kingdom	—	-1	—	1	0	0	0	-3
Vietnam	—	0	—	—	—	—	0	0
Virgin Islands, U.S.	—	-3	—	-11	—	—	—	—
Yemen	—	—	—	—	—	—	—	—
Other	—	-41	0	2	3	1	0	-104
Total	—	-60	13	115	12	3	1	-551
Persian Gulf⁶	—	12	0	10	0	—	0	-6

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-November 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	2	0	236	1,208
Algeria	—	0	—	43	60
Angola	0	0	—	4	50
Congo (Brazzaville)	—	—	—	—	975
Equatorial Guinea	—	0	—	2	2
Gabon	—	0	—	0	2
Iran	—	—	—	—	2
Iraq	—	0	—	69	310
Kuwait	—	0	0	15	40
Libya	—	0	—	0	77
Nigeria	0	-3	—	-12	78
Saudi Arabia	0	0	0	93	545
United Arab Emirates	0	5	0	21	35
Venezuela	—	0	0	0	0
Non-OPEC	38	-50	-2	-4,136	-2,384
Argentina	-1	-1	0	-58	5
Aruba	—	0	—	-4	-4
Australia	0	0	0	-16	-38
Bahamas	0	0	0	-46	-49
Bahrain	—	2	—	2	2
Belgium	0	-12	0	-54	-57
Brazil	0	-10	0	-309	-227
Brunei	—	0	—	1	1
Cameroon	—	0	—	0	0
Canada	44	0	0	49	3,531
Chad	—	0	—	0	0
China	0	0	0	-395	-622
Colombia	1	-8	0	-109	88
Denmark	—	0	—	-2	-45
Dominican Republic	-1	-1	0	-94	-117
Ecuador	0	-2	0	-92	50
Estonia	—	0	—	0	0
Finland	—	-2	—	-7	-16
France	—	-2	0	-12	-176
Germany	0	0	0	10	-104
Guatemala	0	-1	0	-103	-101
Honduras	0	0	0	-68	-68
India	0	-3	0	-118	-449
Indonesia	0	3	0	-79	-81
Italy	0	0	0	17	-146
Japan	0	0	0	-438	-471
Korea, South	0	11	0	-42	-413
Latvia	—	0	—	-1	-1
Lithuania	—	0	0	11	7
Malaysia	0	0	0	21	11
Mexico	-3	-23	-1	-995	-353
Netherlands	0	1	0	-90	-444
Norway	—	0	0	-23	-25
Oman	—	0	—	1	1
Panama	-1	-1	0	-137	-155
Portugal	—	0	—	-2	-15
Puerto Rico	-1	-1	0	-10	-10
Qatar	0	11	—	25	25
Russia	0	0	—	139	161
Spain	2	0	—	-14	-176
Sweden	—	0	0	-39	-71
Trinidad and Tobago	—	0	0	-19	23
United Kingdom	0	0	0	-27	-320
Vietnam	0	0	0	-7	-13
Virgin Islands, U.S.	0	0	—	-39	-39
Yemen	—	0	—	0	0
Other	-2	-11	-1	-963	-1,483
Total	38	-48	-2	-3,900	-1,177
Persian Gulf⁵	0	18	0	226	958

— = Not Applicable.

— = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	7,340	106,819	617,040	24,847	48,722	804,768
Refinery	5,144	13,799	40,936	2,598	20,076	82,553
Tank Farms and Pipelines (Includes Cushing, OK)	2,196	93,020	187,685	22,249	24,808	329,958
Cushing, Oklahoma	--	24,204	--	--	--	24,204
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	388,419	--	--	388,419
Alaskan In Transit	--	--	--	--	3,838	3,838
Total Stocks, All Oils (excluding Crude Oil)²	127,688	179,830	387,675	24,054	90,470	809,717
Refinery	12,150	48,442	115,845	9,787	48,795	235,019
Bulk Terminal	87,400	93,380	211,471	7,708	35,436	435,395
Pipeline	27,895	36,462	59,040	6,394	5,736	135,527
Natural Gas Processing Plant	243	1,546	1,319	165	503	3,776
Natural Gas Liquids	11,796	58,732	151,261	6,980	5,282	234,053
Refinery	351	3,746	4,822	310	1,561	10,790
Bulk Terminal	8,890	35,424	121,711	2,058	3,218	171,303
Pipeline	2,312	18,016	23,409	4,447	--	48,184
Natural Gas Processing Plant	243	1,546	1,319	165	503	3,776
Ethane	1,038	6,990	47,696	1,073	--	56,797
Refinery	--	--	23	--	--	23
Bulk Terminal	462	2,997	38,793	--	--	42,252
Pipeline	576	3,859	8,841	1,069	--	14,345
Natural Gas Processing Plant	--	134	39	4	--	177
Propane	8,598	26,054	48,024	2,791	2,127	87,594
Refinery	119	1,390	975	29	92	2,605
Bulk Terminal	6,890	19,986	40,037	1,058	1,933	69,904
Pipeline	1,468	3,770	6,860	1,637	--	13,735
Natural Gas Processing Plant	121	908	152	67	102	1,350
Normal Butane	1,774	13,272	31,669	1,875	2,760	51,350
Refinery	181	1,540	2,780	194	1,114	5,809
Bulk Terminal	1,373	10,187	25,925	985	1,275	39,745
Pipeline	183	1,364	2,690	665	--	4,902
Natural Gas Processing Plant	37	181	274	31	371	894
Isobutane	117	2,274	8,797	438	370	11,996
Refinery	51	541	728	80	353	1,753
Bulk Terminal	--	709	6,307	--	--	7,016
Pipeline	45	901	1,383	342	--	2,671
Natural Gas Processing Plant	21	123	379	16	17	556
Natural Gasoline	269	10,142	15,075	803	25	26,316
Refinery	--	275	316	7	2	600
Bulk Terminal	165	1,545	10,649	15	10	12,386
Pipeline	40	8,122	3,635	734	--	12,531
Natural Gas Processing Plant	64	200	475	47	13	799
Refinery Olefins	278	404	1,203	98	27	2,010
Refinery	278	404	1,203	98	27	2,010
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Propylene	164	386	600	7	11	1,168
Refinery	164	386	600	7	11	1,168
Normal Butylene	109	18	603	91	16	837
Refinery	109	18	603	91	16	837
Isobutylene	5	0	0	0	0	5
Refinery	5	0	0	0	0	5
Other Hydrocarbons	--	21	--	--	--	21
Refinery	--	21	--	--	--	21
Biofuels (Including Fuel Ethanol)²	8,136	10,400	5,870	525	5,206	30,137
Refinery	248	113	956	94	966	2,377
Bulk Terminal	7,888	10,287	4,914	427	4,240	27,756
Pipeline	--	--	--	4	--	4
Fuel Ethanol	7,104	9,352	4,075	343	2,682	23,556
Refinery	236	102	854	86	187	1,465
Bulk Terminal	6,868	9,250	3,221	253	2,495	22,087
Pipeline	--	--	--	4	--	4
Biodiesel	1,032	954	660	12	592	3,251
Refinery	12	11	102	8	6	139
Bulk Terminal	1,020	943	558	4	586	3,112
Pipeline	--	--	--	--	--	--
Renewable Diesel Fuel	--	59	986	157	1,886	3,087
Refinery	--	--	--	--	773	773
Bulk Terminal	--	59	986	157	1,113	2,314
Pipeline	--	--	--	--	--	--
Other Biofuels³	--	34	149	13	47	244
Refinery	--	--	--	--	--	--
Bulk Terminal	--	34	149	13	47	244
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	3,975	13,378	45,960	2,746	18,126	84,185
Naphthas and Lighter	924	3,298	10,111	566	3,137	18,036
Refinery	908	3,260	8,951	566	2,918	16,603
Bulk Terminal	--	--	--	--	--	--
Kerosene and Light Gas Oils	444	2,396	8,705	518	3,121	15,184
Refinery	444	2,396	6,288	518	3,029	12,675
Bulk Terminal	--	--	2,417	--	92	2,509
Heavy Gas Oils	1,969	5,571	20,643	979	8,306	37,468
Refinery	1,945	5,164	17,340	979	8,195	33,623
Bulk Terminal	24	407	3,303	--	111	3,845
Residuum	638	2,113	6,501	683	3,562	13,497
Refinery	638	2,113	6,501	683	3,562	13,497
Bulk Terminal	--	--	--	--	--	--
Motor Gasoline Blending Components²	48,896	43,037	77,345	6,050	29,311	204,639
Refinery	3,142	13,225	26,913	2,828	14,471	60,579
Bulk Terminal	34,151	21,399	32,904	2,241	11,727	102,422
Pipeline	11,603	8,413	17,528	981	3,113	41,638
Reformulated - RBOB	14,503	4,444	10,016	--	14,595	43,559
Refinery	1,335	825	1,262	--	5,291	8,713
Bulk Terminal	10,278	3,202	5,107	--	7,188	25,776
Pipeline	2,890	417	3,647	--	2,116	9,070
Conventional	34,393	38,592	67,329	6,050	14,716	161,080
Refinery	1,807	12,400	25,651	2,828	9,180	51,866
Bulk Terminal	23,873	18,196	27,797	2,241	4,539	76,646
Pipeline	8,713	7,996	13,881	981	997	32,568
CBOB	26,324	31,294	37,274	4,735	7,402	107,027
Refinery	206	5,976	10,951	1,516	2,487	21,136
Bulk Terminal	17,717	17,396	12,629	2,238	3,920	53,900
Pipeline	8,401	7,920	13,694	981	995	31,991
GTAB	807	--	--	--	--	807
Refinery	--	--	--	--	--	--
Bulk Terminal	807	--	--	--	--	807
Pipeline	--	--	--	--	--	--
Other	7,262	7,300	30,055	1,315	7,314	53,246
Refinery	1,601	6,424	14,700	1,312	6,693	30,730
Bulk Terminal	5,349	800	15,168	3	619	21,939
Pipeline	312	76	187	--	2	577
Aviation Gasoline Blending Components	--	--	39	--	--	39
Refinery	--	--	39	--	--	39
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	2,206	3,913	7,491	1,161	1,914	16,685
Refinery	33	858	3,255	659	592	5,397
Bulk Terminal	613	1,145	3,949	296	1,305	7,308
Pipeline	1,560	1,910	287	206	17	3,980
Reformulated	5	--	--	--	17	23
Refinery	--	--	--	--	17	17
Bulk Terminal	5	--	--	1	--	6
Pipeline	--	--	--	--	--	--
Reformulated (Blended with Fuel Ethanol)	5	--	--	1	17	23
Refinery	--	--	--	--	17	17
Bulk Terminal	5	--	--	1	--	6
Pipeline	--	--	--	--	--	--
Reformulated (Other)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Conventional	2,201	3,913	7,491	1,160	1,897	16,662
Refinery	33	858	3,255	659	575	5,380
Bulk Terminal	608	1,145	3,949	295	1,305	7,302
Pipeline	1,560	1,910	287	206	17	3,980
Conventional (Blended with Fuel Ethanol)	--	91	--	68	31	190
Refinery	--	--	--	67	--	67
Bulk Terminal	--	91	--	1	31	123
Pipeline	--	--	--	--	--	--
Ed55 and Lower	--	91	--	68	--	159
Refinery	--	--	--	67	--	67
Bulk Terminal	--	91	--	1	--	92
Pipeline	--	--	--	--	--	--
Greater than Ed55	--	0	--	--	31	31
Refinery	--	--	--	--	--	--
Bulk Terminal	--	0	--	--	31	31
Pipeline	--	--	--	--	--	--
Conventional (Other)	2,201	3,822	7,491	1,092	1,866	16,472
Refinery	33	858	3,255	592	575	5,313
Bulk Terminal	608	1,054	3,949	294	1,274	7,179
Pipeline	1,560	1,910	287	206	17	3,980

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	165	191	450	9	302	1,117
Refinery	—	44	302	9	161	516
Bulk Terminal	165	147	148	—	141	601
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	9,004	7,251	11,812	880	8,836	37,783
Refinery	531	1,985	4,886	320	3,435	11,157
Bulk Terminal	4,414	3,499	3,242	445	4,381	15,981
Pipeline	4,059	1,767	3,684	115	1,020	10,645
Kerosene	936	300	591	1	3	1,831
Refinery	75	266	97	1	2	441
Bulk Terminal	753	11	367	—	1	1,132
Pipeline	108	23	127	—	—	258
Distillate Fuel Oil²	30,736	27,590	45,813	3,642	12,746	120,527
Refinery	1,493	6,477	16,107	1,525	4,843	30,445
Bulk Terminal	20,990	14,780	15,701	1,476	6,317	59,264
Pipeline	8,253	6,333	14,005	641	1,586	30,818
15 ppm sulfur and Under	28,383	26,946	38,786	3,470	11,824	109,409
Refinery	1,169	6,067	13,503	1,384	4,254	26,377
Bulk Terminal	19,302	14,722	11,857	1,445	6,073	53,399
Pipeline	7,912	6,157	13,426	641	1,497	29,633
Greater than 15 ppm to 500 ppm sulfur	712	321	1,360	127	296	2,816
Refinery	158	109	687	96	241	1,291
Bulk Terminal	551	47	570	31	—	1,199
Pipeline	3	165	103	—	55	326
Greater than 500 ppm sulfur	1,641	323	5,667	45	626	8,302
Refinery	166	301	1,917	45	348	2,777
Bulk Terminal	1,137	11	3,274	—	244	4,666
Pipeline	338	11	476	—	34	859
Residual Fuel Oil	5,594	1,085	17,740	194	4,468	29,081
Refinery	241	954	3,628	194	2,249	7,266
Bulk Terminal	5,353	131	14,112	—	2,219	21,815
Pipeline	—	—	—	—	—	—
Less than 0.31% Sulfur	274	190	964	29	562	2,019
Refinery	12	189	54	29	25	309
Bulk Terminal	262	1	910	—	537	1,710
0.31% to 1.00% Sulfur	1,177	223	4,244	4	826	6,474
Refinery	41	221	720	4	454	1,440
Bulk Terminal	1,136	2	3,524	—	372	5,034
Greater than 1.00% Percent Sulfur	4,143	672	12,532	161	3,080	20,588
Refinery	188	544	2,854	161	1,770	5,517
Bulk Terminal	3,955	128	9,678	—	1,310	15,071
Petrochemical Feedstocks	—	514	2,053	—	—	2,567
Refinery	—	514	2,053	—	—	2,567
Naphtha for Petrochemical Feedstock Use	—	389	1,436	—	—	1,825
Other Oils for Petrochemical Feedstock Use	—	125	617	—	—	742
Special Naphthas	55	113	822	—	25	1,015
Refinery	36	69	810	—	25	940
Bulk Terminal	19	44	12	—	—	75
Lubricants	1,432	729	8,987	—	840	11,988
Refinery	900	237	5,234	—	658	7,029
Bulk Terminal	532	492	3,753	—	182	4,959
Waxes	205	48	339	—	—	592
Refinery	205	48	339	—	—	592
Petroleum Coke	—	2,106	3,414	76	1,297	6,893
Refinery	—	2,106	3,414	76	1,297	6,893
Asphalt and Road Oil	4,215	9,906	5,792	1,669	2,011	23,593
Refinery	624	4,330	2,112	904	729	8,699
Bulk Terminal	3,591	5,576	3,680	765	1,282	14,894
Miscellaneous Products	58	112	693	23	75	961
Refinery	58	112	595	23	75	863
Bulk Terminal	—	—	98	—	—	98
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	135,028	286,649	1,004,715	48,901	139,192	1,614,485

— = Not Applicable.

— = No Data Reported.

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

³ Includes stocks held at biofuel production facilities.

⁴ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, November 2022
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	5	641	646	11,613	25,680	37,293	828
Connecticut	—	—	—	1,317	8	1,325	45
Delaware	—	—	—	801	353	1,154	51
District of Columbia	—	—	—	—	—	—	—
Florida	—	292	292	—	5,175	5,175	—
Georgia	—	85	85	—	2,467	2,467	—
Maine	—	—	—	54	452	506	124
Maryland	—	—	—	852	104	956	36
Massachusetts	4	—	4	926	—	926	—
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	—	—	4,141	6,670	10,811	189
New York	1	—	1	675	1,544	2,219	203
North Carolina	—	43	43	—	2,537	2,537	24
Pennsylvania	—	—	—	574	3,914	4,488	86
Rhode Island	—	—	—	814	4	818	—
South Carolina	—	145	145	—	1,142	1,142	20
Vermont	—	—	—	—	19	19	3
Virginia	—	9	9	1,459	1,110	2,569	47
West Virginia	—	67	67	—	181	181	—
PAD District 2	—	2,003	2,003	4,027	30,596	34,624	277
Illinois	—	38	38	2,351	4,305	6,656	179
Indiana	—	63	63	732	3,461	4,193	1
Iowa	—	50	50	—	1,557	1,557	—
Kansas	—	286	286	—	2,849	2,849	21
Kentucky	—	49	49	290	1,484	1,774	—
Michigan	—	13	13	89	2,671	2,760	—
Minnesota	—	302	302	0	2,259	2,259	—
Missouri	—	116	116	257	667	924	—
Nebraska	—	51	51	—	429	429	—
North Dakota	—	44	44	—	860	860	—
Ohio	—	582	582	—	3,924	3,924	19
Oklahoma	—	222	222	—	2,667	2,667	54
South Dakota	—	29	29	—	269	269	—
Tennessee	—	60	60	—	2,131	2,131	—
Wisconsin	—	98	98	308	1,063	1,371	3
PAD District 3	—	7,204	7,204	6,369	53,448	59,817	464
Alabama	—	95	95	5	1,145	1,150	3
Arkansas	—	112	112	—	1,028	1,028	—
Louisiana	—	771	771	85	11,302	11,387	1
Mississippi	—	1,276	1,276	3	2,272	2,275	—
New Mexico	—	25	25	6	720	726	—
Texas	—	4,925	4,925	6,270	36,981	43,251	460
PAD District 4	1	954	955	—	5,069	5,069	1
Colorado	—	117	117	—	1,523	1,523	—
Idaho	—	38	38	—	375	375	—
Montana	—	278	278	—	1,111	1,111	—
Utah	1	106	107	—	1,439	1,439	1
Wyoming	—	415	415	—	621	621	—
PAD District 5	17	1,880	1,897	12,479	13,719	26,198	3
Alaska	—	299	299	—	471	471	1
Arizona	—	84	84	626	284	910	—
California	17	198	215	11,511	6,781	18,292	2
Hawaii	—	476	476	—	458	458	—
Nevada	—	139	139	16	381	397	—
Oregon	—	77	77	—	1,317	1,317	—
Washington	—	607	607	326	4,027	4,353	—
U.S. Total	23	12,682	12,705	34,489	128,512	163,001	1,573

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, November 2022
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	20,471	709	1,303	22,483	5,594	7,130
Connecticut	1,308	—	—	1,308	9	—
Delaware	459	96	51	606	530	7
District of Columbia	—	—	—	—	—	—
Florida	1,752	132	—	1,884	764	320
Georgia	1,386	—	—	1,386	90	7
Maine	819	2	—	821	37	—
Maryland	696	—	—	696	166	—
Massachusetts	1,180	16	—	1,196	72	—
New Hampshire	766	—	—	766	5	462
New Jersey	3,403	127	572	4,102	3,446	98
New York	2,402	—	366	2,768	169	2,061
North Carolina	1,070	—	—	1,070	—	462
Pennsylvania	2,547	—	72	2,619	176	2,480
Rhode Island	613	—	—	613	—	—
South Carolina	763	—	—	763	43	736
Vermont	7	—	—	7	—	—
Virginia	1,139	277	242	1,658	87	6
West Virginia	161	59	—	220	—	89
PAD District 2	20,789	156	312	21,257	1,085	22,284
Illinois	3,106	—	1	3,107	403	1,044
Indiana	2,017	—	33	2,050	226	366
Iowa	2,233	1	—	2,234	—	450
Kansas	2,256	—	—	2,256	29	13,987
Kentucky	854	—	—	854	—	346
Michigan	1,073	—	—	1,073	81	4,403
Minnesota	1,377	—	111	1,488	105	348
Missouri	705	39	4	748	—	52
Nebraska	730	—	—	730	—	360
North Dakota	630	—	—	630	33	44
Ohio	2,105	7	79	2,191	70	738
Oklahoma	1,308	109	84	1,501	55	101
South Dakota	442	—	—	442	—	7
Tennessee	1,258	—	—	1,258	80	3
Wisconsin	694	—	—	694	3	35
PAD District 3	25,360	1,257	5,191	31,808	17,740	41,164
Alabama	962	—	54	1,016	289	17
Arkansas	831	—	—	831	—	38
Louisiana	5,094	515	809	6,418	8,557	2,935
Mississippi	1,051	392	60	1,503	283	2,411
New Mexico	323	—	—	323	66	4
Texas	17,099	350	4,268	21,717	8,545	35,759
PAD District 4	2,829	127	45	3,001	194	1,154
Colorado	711	—	—	711	3	21
Idaho	273	—	—	273	—	—
Montana	735	68	—	803	62	21
Utah	628	16	45	689	49	1,065
Wyoming	482	43	—	525	80	47
PAD District 5	10,327	241	592	11,160	4,468	2,127
Alaska	846	—	41	887	137	2
Arizona	581	—	—	581	—	1,230
California	4,800	241	351	5,392	2,435	490
Hawaii	288	—	198	486	883	71
Nevada	350	—	2	352	—	—
Oregon	975	—	—	975	171	—
Washington	2,487	—	—	2,487	842	334
U.S. Total	79,776	2,490	7,443	89,709	29,081	73,859

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

Note: Totals may not equal sum of components due to independent rounding.

Data source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	269	21	0	987	55,668	5,765	3,564	2,015	17,675
Petroleum Products	17,818	40	0	21,747	46,689	13,937	5,511	103,012	21,641
Natural Gas Liquids	7,614	28	0	7,965	34,432	10,062	1,012	2,033	13,165
Ethane	5,814	0	—	114	16,260	2,950	—	0	1,367
Propane	1,034	18	0	5,747	9,895	3,690	270	2,000	2,092
Normal Butane	136	0	0	2,103	3,476	1,551	711	32	701
Isobutane	380	10	0	1	1,473	549	31	1	1,504
Natural Gasoline	250	0	—	0	3,328	1,322	—	0	7,501
Refinery Olefins	0	0	—	159	350	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	159	350	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	20	0	—	0	1,031	—	—	0	48
Motor Gasoline Blending Components	7,090	0	0	1,277	1,838	1,666	0	56,231	3,482
Reformulated - RBOB	0	0	0	0	282	—	0	6,523	699
Conventional	7,090	0	0	1,277	1,556	1,666	0	49,708	2,783
CBOB	7,090	0	0	1,277	1,349	1,666	0	48,892	2,783
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	207	—	—	816	0
Biofuels (including Fuel Ethanol)	0	0	0	8,944	5,346	484	4,381	15	0
Fuel Ethanol	0	0	0	8,837	5,079	453	3,981	15	0
Biodiesel	0	0	0	107	267	31	400	0	0
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	92	0	0	579	157	104	0	1,363	466
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	92	0	0	579	157	104	0	1,363	466
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	92	0	0	579	157	104	0	1,363	466
Finished Aviation Gasoline	0	0	—	0	0	—	—	46	47
Kerosene-Type Jet Fuel	405	0	0	384	28	721	0	14,492	1,495
Kerosene	—	0	—	0	0	—	—	37	—
Distillate Fuel Oil	2,534	0	0	1,466	967	867	0	28,118	2,391
15 ppm sulfur and under	2,534	0	0	1,466	967	867	0	27,394	2,287
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	104
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	723	—
Residual Fuel Oil	0	0	—	—	1,179	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	155	—	—	—	26
Naphtha for Petrochemical Feedstock Use	0	0	—	—	135	—	—	—	26
Other Oils for Petrochemical Feedstock Use	0	0	—	—	20	—	—	—	0
Special Naphthas	0	0	—	—	0	—	—	—	33
Lubricants	0	0	—	20	29	—	—	316	198
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	12	0	271	730	33	10	16	10
Asphalt and Road Oil	63	0	0	682	447	0	108	345	275
Miscellaneous Products	0	0	—	—	0	—	—	—	6
Total	18,087	61	0	22,733	102,357	19,702	9,075	105,027	39,316

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	0	0	24,019	1,271	0	0	0	0
Petroleum Products	0	5,725	0	21,369	4,295	2,916	0	45	16
Natural Gas Liquids	0	131	0	20,326	4,168	564	0	0	0
Ethane	0	—	0	6,469	1,444	—	0	0	0
Propane	0	0	0	7,197	1,308	185	0	0	0
Normal Butane	0	86	0	2,960	390	314	0	0	0
Isobutane	0	45	0	1,147	432	65	0	0	0
Natural Gasoline	0	—	0	2,553	594	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,449	0	205	0	1,260	0	0	0
Reformulated - RBOB	—	1,971	0	0	0	0	0	0	—
Conventional	0	1,478	0	205	0	1,260	0	0	0
CBOB	0	1,478	0	205	0	1,260	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	0	1,076	0	0	0	92	0	0	0
Fuel Ethanol	0	508	0	0	0	92	0	0	0
Biodiesel	0	74	0	0	0	0	0	0	0
Renewable Diesel Fuel	—	494	—	—	0	0	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	378	0	86	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	378	0	86	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	378	0	86	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	221	0	24	0	329	0	0	0
Kerosene	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil	0	751	0	358	0	402	0	0	0
15 ppm sulfur and under	0	751	0	358	0	402	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	10	0	0	3	6	0	45	3
Asphalt and Road Oil	0	88	0	78	124	177	0	0	13
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,725	0	45,388	5,566	2,916	0	45	16

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	215	21	235	55,586	5,765	115	17,675	0	-
Petroleum Products	17,622	0	9,782	36,537	13,420	81,576	20,070	0	4,350
Natural Gas Liquids	7,501	0	7,150	34,009	10,062	1,703	12,531	0	-
Ethane	5,814	0	114	16,260	2,950	0	1,367	0	-
Propane	1,005	0	5,158	9,607	3,690	1,703	1,993	0	-
Normal Butane	128	0	1,878	3,412	1,551	0	401	0	-
Isobutane	304	0	0	1,402	549	0	1,269	0	-
Natural Gasoline	250	0	0	3,328	1,322	0	7,501	0	-
Motor Gasoline Blending Components	7,090	0	707	1,549	1,666	44,483	3,482	0	3,449
Reformulated - RBOB	0	0	0	282	-	6,523	699	-	1,971
Conventional	7,090	0	707	1,267	1,666	37,960	2,783	0	1,478
CBOB	7,090	0	707	1,267	1,666	37,144	2,783	0	1,478
GTAB	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	-	816	-	-	-
Biofuels (including Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Biodiesel	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	92	0	525	0	104	982	393	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	92	0	525	0	104	982	393	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	92	0	525	0	104	982	393	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	405	0	384	28	721	10,804	1,460	0	221
Kerosene	-	0	0	0	-	37	-	-	-
Distillate Fuel Oil	2,534	0	1,016	951	867	23,567	2,204	0	680
15 ppm sulfur and under	2,534	0	1,016	951	867	22,919	2,100	0	680
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	104	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,837	21	10,017	92,123	19,185	81,691	37,745	0	4,350

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2022
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	24,019	227	—	0	0
Petroleum Products	0	21,291	4,168	2,077	0	0
Natural Gas Liquids	0	20,326	4,168	—	0	0
Ethane	0	6,469	1,444	—	0	0
Propane	0	7,197	1,308	—	0	0
Normal Butane	0	2,960	390	—	0	0
Isobutane	0	1,147	432	—	0	0
Natural Gasoline	0	2,553	594	—	0	0
Motor Gasoline Blending Components	0	205	0	1,260	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	205	0	1,260	0	0
CBOB	0	205	0	1,260	0	0
GTAB	—	—	—	—	—	—
Other	0	—	0	—	0	—
Biofuels (including Fuel Ethanol)	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Biodiesel	—	—	—	—	—	—
Renewable Diesel Fuel	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	378	0	86	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	378	0	86	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	378	0	86	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	24	0	329	0	0
Kerosene	0	—	0	—	0	—
Distillate Fuel Oil	0	358	0	402	0	0
15 ppm sulfur and under	0	358	0	402	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	—	0	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	45,310	4,395	2,077	0	0

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	54	0	—	314	82	—
Petroleum Products	20	0	0	1,290	3,602	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	20	0	—	0	1,031	—
Motor Gasoline Blending Components	0	0	—	570	289	—
Reformulated - RBOB	—	—	—	—	—	—
Conventional	0	0	—	570	289	—
CBOB	0	0	—	570	82	—
GTAB	—	—	—	—	—	—
Other	0	0	—	—	207	—
Biofuels (including Fuel Ethanol)	0	0	0	196	500	0
Fuel Ethanol	0	0	—	196	481	—
Biodiesel	0	0	—	—	19	—
Renewable Diesel Fuel	—	0	0	—	0	0
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	54	157	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	54	157	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	54	157	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	0	450	16	0
15 ppm sulfur and under	0	0	0	450	16	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	0	—	0	0	—
Residual Fuel Oil	0	0	—	—	1,179	—
Less than 0.31 percent sulfur	0	0	—	—	236	—
0.31 to 1.00 percent sulfur	0	0	—	—	234	—
Greater than 1.00 percent sulfur	0	0	—	—	709	—
Petrochemical Feedstocks	0	0	—	—	155	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	135	—
Other Oils for Petrochemical Feedstock Use	0	0	—	—	20	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	—	20	29	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	0	246	—
Miscellaneous Products	0	0	—	—	0	—
Total	74	0	0	1,604	3,684	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2022
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,900	—	1,900	—	0	—	0	0	0
Petroleum Products	21,026	146	202	20,678	890	565	0	0	0
Natural Gas Liquids	46	—	—	46	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	46	—	—	46	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	48	—	0	0	0
Motor Gasoline Blending Components	11,748	—	—	11,748	0	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	11,748	—	—	11,748	0	—	0	0	0
CBOB	11,748	—	—	11,748	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	0	—	—	0	0
Biofuels (including Fuel Ethanol)	15	—	—	15	0	494	0	0	0
Fuel Ethanol	15	—	—	15	0	—	0	0	0
Biodiesel	—	—	—	—	0	—	—	0	0
Renewable Diesel Fuel	—	—	—	—	—	494	—	—	0
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	381	—	—	381	73	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	381	—	—	381	73	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	381	—	—	381	73	—	0	0	0
Finished Aviation Gasoline	46	—	—	46	47	—	0	0	0
Kerosene-Type Jet Fuel	3,688	—	—	3,688	35	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	4,551	146	—	4,405	187	71	0	0	0
15 ppm sulfur and under	4,475	101	—	4,374	187	71	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	76	45	—	31	—	—	0	—	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	26	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	26	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	33	—	—	0	0
Lubricants	316	—	202	114	198	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	235	—	—	235	237	—	0	0	0
Miscellaneous Products	—	—	—	—	6	—	—	0	0
Total	22,926	146	2,102	20,678	890	565	0	0	0

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	438	0	0	3,564
Propane	29	18	0	0	589	288	0	270
Propylene	0	0	–	–	159	350	–	–
Normal Butane	8	0	0	0	225	64	0	711
Isobutane	76	10	0	0	1	71	0	31
Fuel Ethanol	0	0	0	0	8,641	4,598	453	3,981
Biodiesel	0	0	0	0	107	248	31	400
Marketable Petroleum Coke	0	12	0	0	271	730	33	10
Asphalt and Road Oil	63	0	0	0	682	201	0	108

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	1,044	0
Propane	251	99	0	0	0	0	0	185
Propylene	0	0	–	–	0	0	0	–
Normal Butane	32	300	0	86	0	0	0	314
Isobutane	1	235	0	45	0	0	0	65
Fuel Ethanol	0	0	0	508	0	0	0	92
Biodiesel	0	0	0	74	0	0	0	0
Marketable Petroleum Coke	16	10	0	10	0	0	3	6
Asphalt and Road Oil	110	38	0	88	0	78	124	177

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	0
Marketable Petroleum Coke	0	64	45	3
Asphalt and Road Oil	0	0	0	13

– = No Data Reported.
Data source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, November 2022
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	215	54	0	269
3	21	0	0	21
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	235	314	438	987
3	55,586	82	0	55,668
4	5,765	—	0	5,765
5	—	—	3,564	3,564
From 3 to				
1	115	1,900	0	2,015
2	17,675	0	0	17,675
4	0	—	0	0
5	—	—	0	0
From 4 to				
1	0	0	0	0
2	24,019	0	0	24,019
3	227	0	1,044	1,271
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Data source: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	3,002	290	2,712	41,963	65,984	-24,021	56,960	19,690	37,270
Petroleum Products	124,759	17,858	106,901	60,892	87,884	-26,991	51,070	130,378	-79,308
Natural Gas Liquids	9,998	7,642	2,356	41,105	53,471	-12,366	38,628	15,329	23,299
Ethane	114	5,814	-5,700	13,650	19,324	-5,674	17,704	1,367	16,337
Propane	7,747	1,052	6,695	10,323	19,602	-9,279	11,221	4,092	7,129
Normal Butane	2,135	136	1,999	3,797	7,841	-4,044	3,866	819	3,047
Isobutane	2	390	-388	3,031	2,054	977	1,915	1,550	365
Natural Gasoline	0	250	-250	10,304	4,650	5,654	3,922	7,501	-3,579
Refinery Olefins	159	0	159	0	509	-509	350	0	350
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	159	0	159	0	509	-509	350	0	350
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	20	-20	68	1,031	-963	1,031	48	983
Motor Gasoline Blending Components	57,508	7,090	50,418	10,777	4,781	5,996	1,838	63,162	-61,324
Reformulated - RBOB	6,523	0	6,523	699	282	417	282	9,193	-8,911
Conventional	50,985	7,090	43,895	10,078	4,499	5,579	1,556	53,969	-52,413
CBOB	50,169	7,090	43,079	10,078	4,292	5,786	1,349	53,153	-51,804
GTAB	0	0	-	-	-	-	-	-	-
Other	816	0	816	0	207	-207	207	816	-609
Biofuels (including Fuel Ethanol)	8,959	0	8,959	0	19,155	-19,155	5,346	1,091	4,256
Fuel Ethanol	8,852	0	8,852	0	18,349	-18,349	5,079	523	4,556
Biodiesel	107	0	107	0	806	-806	267	74	194
Renewable Diesel Fuel	-	-	-	0	0	-	0	494	-494
Other Biofuels ²	-	-	-	0	0	-	0	0	-
Finished Motor Gasoline	1,942	92	1,850	936	840	96	157	1,829	-1,672
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	0	0	-	0	0	-	0	0	-
Conventional	1,942	92	1,850	936	840	96	157	1,829	-1,672
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	1,942	92	1,850	936	840	96	157	1,829	-1,672
Finished Aviation Gasoline	46	0	46	47	0	47	0	93	-93
Kerosene-Type Jet Fuel	14,876	405	14,471	1,924	1,133	791	28	16,208	-16,180
Kerosene	37	0	37	0	0	-	0	37	-37
Distillate Fuel Oil	29,584	2,534	27,050	5,283	3,300	1,983	967	31,260	-30,293
15 ppm sulfur and under	28,860	2,534	26,326	5,179	3,300	1,879	967	30,432	-29,465
Greater than 15 ppm to 500 ppm sulfur	1	0	1	104	0	104	0	105	-105
Greater than 500 ppm sulfur	723	0	723	0	0	-	0	723	-723
Residual Fuel Oil	0	0	-	0	1,179	-1,179	1,179	0	1,179
Petrochemical Feedstocks	0	0	-	26	155	-129	155	26	129
Naphtha for Petrochemical Feedstock Use	0	0	-	26	135	-109	135	26	109
Other Oils for Petrochemical Feedstock Use	-	-	-	0	20	-20	20	0	20
Special Naphthas	0	0	-	33	0	33	0	33	-33
Lubricants	336	0	336	198	49	149	29	514	-485
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	286	12	274	74	1,043	-969	790	35	755
Asphalt and Road Oil	1,028	63	965	416	1,237	-822	571	707	-137
Miscellaneous Products	0	0	-	6	0	6	0	6	-6
Total	127,760	18,148	109,613	102,855	153,868	-51,012	108,029	150,068	-42,039

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, November 2022
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	5,765	25,290	-19,525	3,564	0	3,564
Petroleum Products	13,953	28,581	-14,628	14,151	125	14,026
Natural Gas Liquids	10,062	25,058	-14,996	1,707	0	1,707
Ethane	2,950	7,913	-4,963	—	—	—
Propane	3,690	8,690	-5,000	455	0	455
Normal Butane	1,551	3,664	-2,113	1,111	0	1,111
Isobutane	549	1,644	-1,095	141	0	141
Natural Gasoline	1,322	3,147	-1,825	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Normal Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,666	1,465	201	4,709	0	4,709
Reformulated - RBOB	—	—	—	1,971	0	1,971
Conventional	1,666	1,465	201	2,738	0	2,738
CBOB	1,666	1,465	201	2,738	0	2,738
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	484	92	392	5,548	0	5,548
Fuel Ethanol	453	92	361	4,580	0	4,580
Biodiesel	31	0	31	474	0	474
Renewable Diesel Fuel	0	0	—	494	0	494
Other Biofuels ²	0	0	—	0	0	—
Finished Motor Gasoline	104	464	-360	86	0	86
Reformulated	0	0	—	0	0	—
Reformulated Blended with Fuel Ethanol	0	0	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	104	464	-360	86	0	86
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	104	464	-360	86	0	86
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	721	353	368	550	0	550
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	867	760	107	1,153	0	1,153
15 ppm sulfur and under	867	760	107	1,153	0	1,153
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	0	0	—
Marketable Petroleum Coke	36	9	27	25	113	-87
Asphalt and Road Oil	13	380	-367	373	13	360
Miscellaneous Products	0	0	—	0	0	—
Total	19,718	53,870	-34,152	17,716	125	17,590

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Data source: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

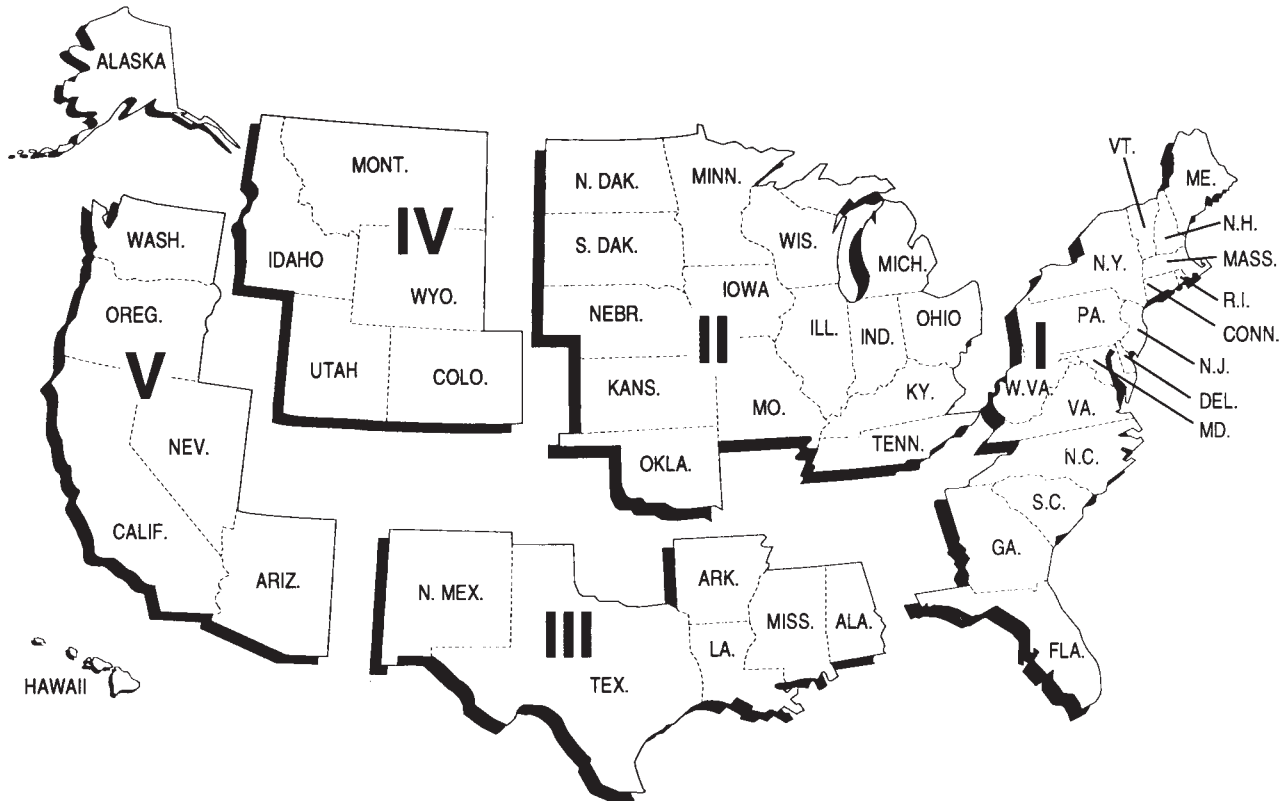
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

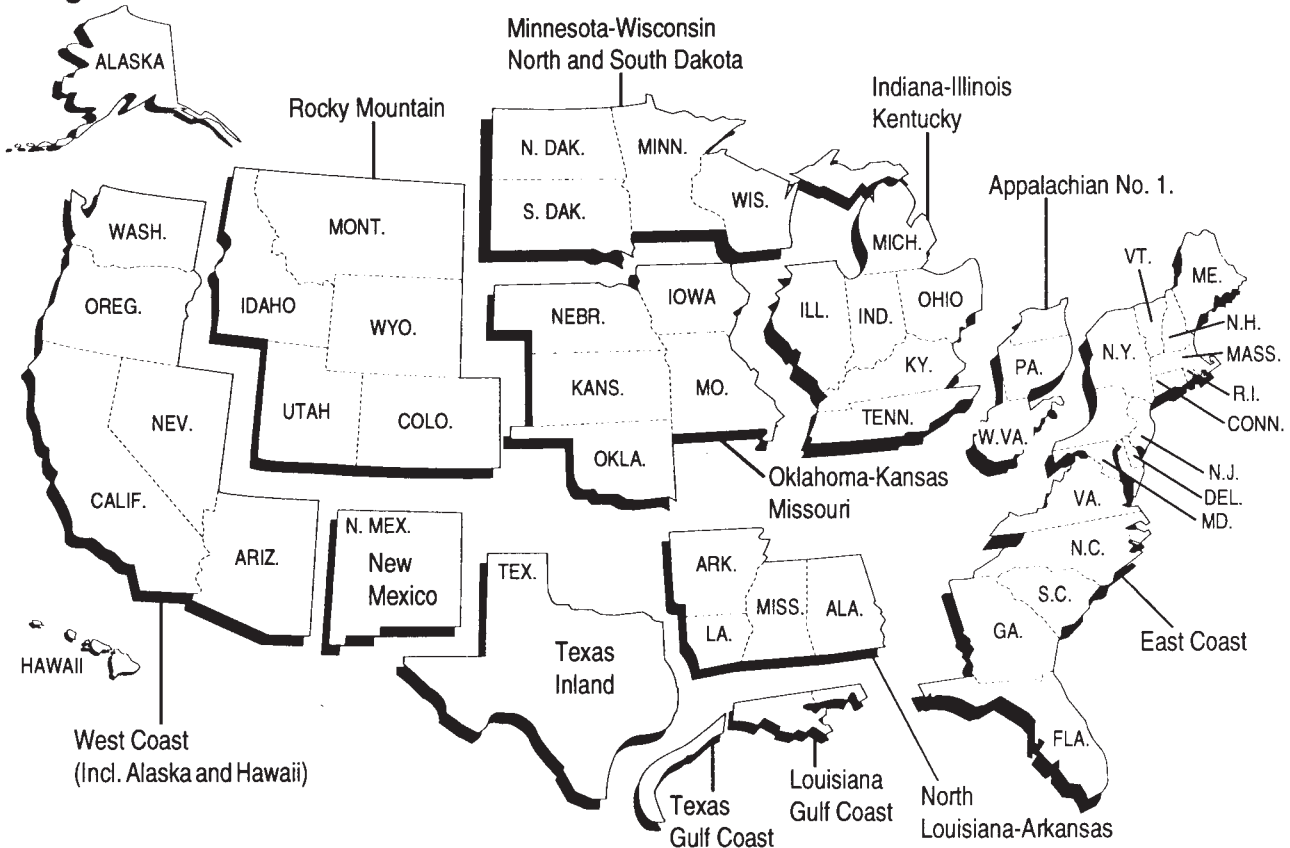
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B. Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels.

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM and PSA are used for calculation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum product barrels from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, biofuels and oxygenate production plants, imports, exports, and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, biofuels plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock. EIA includes tertiary stocks of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) held by storage operators with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker, or barge in primary stocks.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate national and PADD supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. EIA provides the following discussion to assist with interpretation of supply and disposition tables 1-25. The [EIA glossary](#) contains definitions of products and other terms used on tables.

(1.) Supply

a. **Field Production - Total Field Production** is the sum of crude oil production and natural gas liquids production (NGL) from natural gas processing plants.

Sources of crude oil production data include state government agencies, Department of the Interior, Bureau of Safety and Environmental Enforcement (and predecessor agencies), first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report", and Form EIA-914 "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to "Domestic Crude Oil Production" in Section 2C(1) for further details.

Field production of NGL is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. **Biofuels Plant Net Production**— biofuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and biofuels (diesel, heating oil, jet, naphtha, gasoline, and other biofuels and biointermediates) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-biofuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. **Refinery and Blender Net Production**— Refinery and Blender Net Production is reported on Forms EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

d. **Imports** - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories from foreign countries.

e. **Net Receipts** — Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 62.

f. **Adjustments**— This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, hydrogen, and "other" hydrocarbons. EIA calculates adjustment quantities to balance supply and disposition or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, biofuels plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021. Beginning with data for January 2021, EIA uses product supplied as the balance quantity for biofuels excluding fuel ethanol.

a. **Stock Change**— Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month's publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. **Refinery and Blender Net Inputs**— Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, hydrocarbon gas liquids, hydrogen, biofuels, and other hydrocarbons) processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. **Exports** - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. **Products Supplied** - Products supplied is a calculated measure of demand equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported (e.g. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" from January 1983 through December 2009. EIA discontinued reporting crude oil used directly on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of midnight on the last day of each month. Primary stocks include crude oil, hydrocarbon gas liquids, biofuels, and petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, biofuel production plants, and bulk terminals. Ending stocks also include stocks in transit by rail, truck, and water reported at destination facilities. EIA primary stocks include NGL (ethane, propane, normal butane, isobutane, and natural gasoline) held by end-user storage operators (i.e. tertiary storage) with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks (except stocks of NGL held by end users with storage capacity of at least 50,000 barrels and capability to ship NGL by pipeline, tanker, or barge) held by consumers. EIA excludes product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported in the PSM and PSA, but EIA provides stock quantities held in selected government reserves in Appendix D.

Primary stocks of crude oil included barrels held on crude oil producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbl_m_cur.htm

http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbl_m.htm

2. Components - Forms Discussions

The data presented in the *PSM* include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and hydrocarbon gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"
14. EIA-817, "Monthly Tanker and Barge Movement Report"
15. EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" (formerly "Monthly Oxygenate Report")
16. EIA-820, "Annual Refinery Report."

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report

on weekly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, “Annual Refinery Report.” The EIA-820 data are published in the annual “Refinery Capacity Report.”

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at:

<https://www.eia.gov/survey/>

Form EIA-22M “Monthly Biodiesel Production Survey” collected data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales until data for September 2020. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.

Form EIA-810, “Monthly Refinery Report,” collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on an annual basis.

Form EIA-812, “Monthly Product Pipeline Report,” collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included.

Form EIA-813, “Monthly Crude Oil Report,” collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil and unfinished oils only.

Form EIA-815, “Monthly Bulk Terminal Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on an annual basis.

Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and biofuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” included operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. EIA discontinued using Form EIA-22M in October 2020 and replaced it with data collected on Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene”.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Bulk Terminal Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and

has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included. January 2023

Respondents to Form EIA-816, “Monthly Natural Gas Liquids Report” include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, “Monthly Tanker and Barge Movement Report” include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene” include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other biofuels and biointermediates, isooctane, isooctene and fuel oxygenates other than fuel alcohol (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations) located in the 50 States and the District of Columbia.

(3.) Collection

Survey data for the MPSRS are collected by Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 98 percent calculated as total reports received divided by total reports expected.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in

(6.) Macro Editing

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases *PSM* data within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available in HTML format on [eia.gov](http://www.eia.gov). Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum data can be accessed at:

<http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the *PSM* are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the *PSM*, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report.” For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 “Domestic Crude Oil First Purchase Report.” For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, “Production of Crude Oil by PAD District and State.” Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a “Shipper’s Export Declaration Document” with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil and select products by railroad

The volume of crude oil, ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA’s Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum data html tables are updated with final data for a year.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Liquids (NGL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGL production is added to refinery receipts and inputs of NGPL. The adjusted NGL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of

GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each PADD. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PADD. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PADD. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PADD. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PADD, then the total adjustment quantity of finished conventional motor gasoline in that PADD would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PADD.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and biofuels plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for

reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Biofuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for biofuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). Product supplied for biofuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” biofuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.
- The product category called “biofuels (excluding fuel ethanol)” includes biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for biofuels (excluding fuel ethanol) at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Biofuels (excluding Fuel Ethanol) was unavailable and was excluded from Biofuels Plant Net Production. Therefore the calculation of adjustments to Biofuels (excluding Fuel Ethanol) caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. As a result, the adjustment for “biofuels (excluding fuel ethanol)” excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppms sulfur and under) through distillate fuel oil adjustments. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet

fuel, naphtha, gasoline, and other biofuels and biointermediates reported on Form EIA-819 under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. EIA now reports barrels formerly included in adjustment quantities as product supplied.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of biofuels plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol). Beginning with PSA data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the previously published Petroleum Supply Annual every month in petroleum data tables (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in petroleum data tables.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, “Monthly Imports Report,” have the same general

disclosure information statement. The information reported on Form EIA-814 will be considered “public information” and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. § 552, the Department of Energy (DOE) regulations, 10 C.F.R. § 1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. § 1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	101
Gulf Oil LP	Chelsea, MA	50
Gulf Oil LP	South Portland, ME	150
Global Companies LLC	Chelsea, MA	100

Data source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Buckeye Terminals LLC	Port Reading, NJ	900
South Portland Terminal LLC	South Portland, ME	99

Data source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	83
Fuel Ethanol	NY	9
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Data source: New York State Energy Research & Development Authority